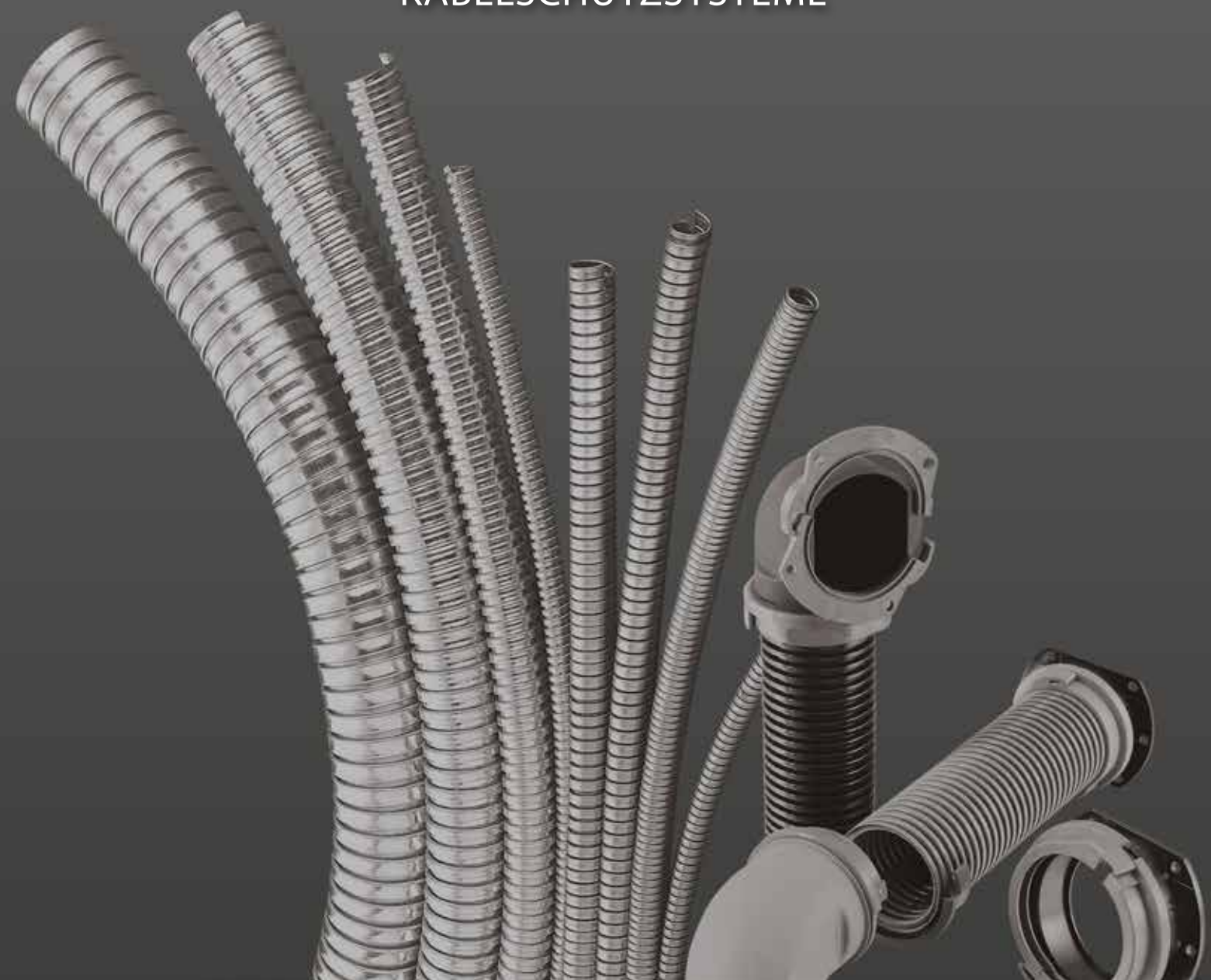


The logo for LAGRA SYSTEMTECHNIK features the company name in a bold, sans-serif font. The letters 'L', 'A', 'R', and 'A' are black, while the 'G' is a vibrant orange. The text is centered between two black, semi-circular shapes that resemble the ends of a cable or pipe. Below the main name, the words 'SYSTEMTECHNIK' are written in a smaller, all-caps, black font.

LAGRA
SYSTEMTECHNIK

PRODUKTKATALOG

KABELSCHUTZSYSTEME



FIRMENPROFIL

COMPANY PROFILE

Das Unternehmen geht in seinen Ursprüngen auf das Jahr 1965 zurück und hat heute seinen Sitz in Nußloch, unweit von Heidelberg. Wir liefern Bauteile im Bereich der Maschinen-, Anlagen- und Elektroinstallation, Fahrzeugbau, Roboterbau und Schienenverkehrstechnik. Die Produktpalette fokussiert sich rund um den qualifizierten Kabelschutz, auch in extremen Anwendungsfällen. Darum ist die Beratung unserer Kunden von großer Bedeutung, um sie bestmöglich und problemorientiert zu bedienen.

Unser Produktprogramm gestaltet sich, ohne dass die Darstellung abschliessend wäre, im wesentlichen wie folgt:

- » Kabelschutzschläuche und Verschraubungen mit Zubehör
- » Kabelverschraubungen und Zubehör
- » Gehäuse für die Elektrotechnik und Elektronik
- » Metrische Rohre aus Stahl mit Zubehör

The origins of the enterprise go back to the year 1965 and is based in Nußloch, near Heidelberg. We deliver components in the range of electrical installation, installation of machines and facilities, vehicle construction, robot construction and rail transportation technology.

The product range focuses mainly on the qualified cable protection, even for application in extreme cases. This is why expert advice to our clients is of major importance and we wish to attend to our customers in the best possible and job-oriented way.



Dabei sind hochtemperatur- und säurebeständige Ausführungen unsere Stärke, wir können fast in allen Edelstahlqualitäten liefern, teilweise sind unsere Produkte nach UL und/oder CSA approbiert.

Sonderausführungen und Sondermaterialien sind auf Anfrage erhältlich. Wir konfektionieren auch nach Kundenspezifikation. Den Anspruch, eine feststehende Produktpalette unseren Kun-

den anzubieten, erheben wir nicht. Die etwa 10.000 Artikel unseres Programms ermöglichen Problemlösungen für beinahe jegliche Anwendungsfälle. Sollte dennoch eine Anforderung nicht zur Zufriedenheit zu lösen sein, sind wir in der Lage und gern bereit, neue Produkte mit und für unsere Kunden zu kreieren. Für ein unverbindliches Beratungsgespräch stehen wir Ihnen jederzeit zur Verfügung.

Our product range covers primarily - without requirement on completeness - the following products:

- » Cable Protection Conduits and Fittings with Accessories
- » Cable Glands and Accessories
- » Boxes for Electrical Engineering and Electronics
- » Metric Steel Pipes with Accessories

We are excellent in high-temperature and acid-resistant realisations. We are able to deliver all sorts of Stainless steel qualities and many of our products are UL and/ or CSA approbated.

Special designs and special materials are available on request. We tailor components also to our customers' specifications.

We do not draw upon having a fixed array of products available for our clients. Our nearly 10.000 components of our product range enable solutions for almost every case of application.

In case your demand for delivery has not been met to your satisfaction, we are in the position and ready to create new products together with and for our customers. We would be happy to be at your command for a non-binding consultation.

INHALTSVERZEICHNIS

KATEGORIE CATEGORY		SEITE PAGE
01	Flexible Schutzschläuche aus Metall Flexible protective metal conduits	4-21
02	Verschraubungen und Zubehör für flexible Schutzschläuche aus Metall Fittings and accessories for flexible protective metal conduits	22-36
03	Wellrohre aus Kunststoff Corrugated conduits made of plastic	38-54
04	Verschraubungen und Zubehör für Wellrohre aus Kunststoff Fittings and accessories for corrugated conduits made of plastic	56-87
05	Weitere Schutzschläuche, Verschraubungen und Zubehör Further protective conduits, fittings and accessories	88-105
06	Kabelverschraubungen aus Kunststoff Cable glands made of plastic	106-113
07	Kabelverschraubungen aus Metall Cable glands made of metal	114-125
08	Zubehör aus Kunststoff Accessories made of plastic	126-137
09	Zubehör aus Metall Accessories made of metal	138-150
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TYP / TYPE	NZ	NZX	DAN	NDX
Seite / page	Seite 8	Seite 8	Seite 9	Seite 9
PRODUKT-EIGENSCHAFTEN PRODUCT FEATURES	Standardprofil , einfach verklammert, sehr flexibel, Schutz gegen mechanische Beanspruchung, zugfest. Standard profile , single seam, highly flexible, protection against mechanical stress, high tensile strength.	Standardprofil , einfach verklammert, EDELSTAHL , sehr flexibel, Schutz gegen mechanische Beanspruchung, zugfest. Standard profile , single seam, STAINLESS STEEL , highly flexible, protection against mechanical stress, high tensile strength.	Verstärktes Profil , doppelt verklammert (Agraff), sehr flexibel, Schutz gegen starke mechanische Beanspruchung, zugfest. Reinforced profile , double seam (Agraff), highly flexible, protection against heavy mechanical stress, high tensile strength.	Verstärktes Profil , doppelt verklammert (Agraff), EDELSTAHL , sehr flexibel, Schutz gegen starke mechanische Beanspruchung, zugfest. Reinforced profile , double seam (Agraff), STAINLESS STEEL , highly flexible, protection against heavy mechanical stress, high tensile strength.
MATERIAL	Stahl verzinkt galvanised steel	Edelstahl V2A, 1.4301 stainl. steel AISI 304	Stahl verzinkt galvanised steel	Edelstahl V2A, 1.4301 stainl. steel AISI 304
GRÖSSEN - NW SIZES - DN	5 - 52	5 - 52	10 - 100	4 - 100
TEMPERATUR TEMPERATURE	-60°C - +250°C	-60°C - +600°C	-60°C - +250°C	-60°C - +600°C
BRENNBARKEIT FLAMMABILITY	-	-	-	-
SCHUTZART PROTECTION	IP 50	IP 50	IP 50	IP 50
GEMÄSS ACCORDING TO	IEC EN 61386	IEC EN 61386	IEC EN 61386	IEC EN 61386
ZULASSUNGEN & ATTRIBUTE				
CERTIFICATION & PROPERTIES				

PASSENDEN VERSCHRAUBUNGEN UND ZUBEHÖR SUITABLE FITTINGS AND ACCESSORIES	Seite/page 24 NMF starr rigid	Seite/page 26 SVMF starr rigid	Seite/page 28 CMMF starr rigid	Seite/page 31 CMF Innengewinde female thread	Seite/page 32 CMPR Zugentlastung strain relief
	Seite/page 25 NMG drehbar swivelling	Seite/page 27 SVMG drehbar swivelling	Seite/page 30 CMMG drehbar swivelling	Seite/page a.A. CMFG drehbar swivelling	Seite/page 34 CMCC Bogen 90° elbow 90°



T

TX

TP

SV

SVPEVA

Seite 10

Seite 10

Seite 11

Seite 12

Seite 13

Standardprofil, einfach verklammert, mit **STAHLGEFLECHT**, flexibel, Schutz gegen starke mechanische Beanspruchung, zugfest, **EMV**-Anwendungen.

Standardprofil, einfach verklammert, mit **EDELSTAHLGEFLECHT**, flexibel, Schutz gegen starke mechanische Beanspruchung, zugfest, **EMV**-Anwendungen.

Standardprofil, einfach verklammert, mit **BAUMWOLLDICHTUNG** und **STAHLGEFLECHT**, flexibel, Schutz gegen starke mechanische Beanspruchung, und Feuchtigkeit, zugfest, **EMV**-Anwendungen.

Standardprofil, einfach verklammert, mit **PVC-UMMANTELUNG**, flexibel, Schutz gegen mechanische Beanspruchung, Staub und Wasser, zugfest.

Standardprofil, einfach verklammert, mit **PE-UMMANTELUNG**, flexibel, Schutz gegen mechanische Beanspruchung, Staub und Wasser, zugfest.

Standard profile, single seam, with **STEEL BRAID**, flexible, protection against heavy mechanical stress, high tensile strength, **EMC**-applications.

Standard profile, single seam, with **STAINLESS STEEL BRAID**, flexible, protection against heavy mechanical stress, high tensile strength, **EMC**-applications.

Standard profile, single seam, with **COTTON SEAL** and **STEEL BRAID**, flexible, protection against heavy mechanical stress and moisture, high tensile strength. **EMC**-applications.

Standard profile, single seam, with **PVC-COVER**, flexible, protection against mechanical stress, dust and water, high tensile strength.

Standard profile, single seam, with **PE-COVER**, flexible, protection against mechanical stress, dust and water, high tensile strength.

Stahl verzinkt galvanised steel

Stahl verz./Edelst. 1.4301 galv. steel/stainl. AISI 304

Stahl verzinkt/Baumwolle galvanised steel/cotton

Stahl verzinkt/PVC galvanised steel/PVC

Stahl verzinkt/Polyethylene galv. steel/polyethylene

9 - 50

9 - 50

9 - 75

7 - 52

10 - 50

-60°C - +250°C

-60°C - +250°C

-50°C - +150°C

-15°C - +70°C

-30°C - +90°C

-

-

-

-

UL94 V0

IP 54

IP 54

IP 55

IP 68

IP 68

IEC EN 61386

IEC EN 61386

IEC EN 61386

IEC EN 61386

IEC EN 61386



Seite/page a.A.



CMC
Bogen 90°
elbow 90°

Seite/page a.A.



CMFR
Adapter
adapter

Seite/page 36



BCM
Klemmring
clamping ring

Seite/page 36



EESO
Endtülle
bushing

Seite/page 146



M-WM
Bogen 90°
elbow 90°

Seite/page 148



M-FLW
Flange
flange

Seite/page 152



C ...
Abzweigkasten
terminal box

Seite/page a.A.



ARFR
Adapter
adapter

Seite/page 36



CDVT
Erdung
earthing

Seite/page 36



VCM
Endtülle
bushing

Seite/page 86



LRSG
Schelle
clamp

Seite/page 140



M-RED
Adapter
adapter



TYP / TYPE	SVT	SVTX	SVPEVAT	L
Seite / page	Seite 14	Seite 14	Seite 15	Seite 16
PRODUKT-EIGENSCHAFTEN PRODUCT FEATURES	Standardprofil , einfach verklammert, mit PVC-UMMANTELUNG und STAHLGEFLECHT , flexibel, Schutz gegen starke mechanische Beanspruchung, Staub und Wasser, zugfest, EMV -Anwendungen.	Standardprofil , einfach verklammert, mit PVC-UMMANTELUNG und EDELSTAHLGEFLECHT , flexibel, Schutz gegen starke mech. Beanspruchung, Staub und Wasser, zugfest, EMV -Anwendungen.	Standardprofil , einfach verklammert, mit PE-UMMANTELUNG und STAHLGEFLECHT , flexibel, Schutz gegen starke mechanische Beanspruchung, Staub und Wasser, zugfest EMV -Anwend.	Standardprofil , einfach verklammert, mit PVC-UMMANTELUNG , flexibel, Schutz gegen mechanische Beanspruchung, flüssigkeitsdicht, zugfest.
MATERIAL	Stahl verzinkt/PVC galvanised steel/PVC	Stahl verz./PVC/Edelst. galv. steel/PVC/stainless	Stahl verzinkt/Polyethylen galv.steel/polyethylene	Stahl verzinkt/PVC galvanised steel/PVC
GRÖSSEN - NW SIZES - DN	9 - 50	9 - 50	10 - 50	9 - 50
TEMPERATUR TEMPERATURE	-20°C - +70°C	-20°C - +70°C	-30°C - +90°C	-20°C - +70°C
BRENNBARKEIT FLAMMABILITY	-	-	UL94 V0	UL94 V0
SCHUTZART PROTECTION	IP 68	IP 68	IP 68	IP 68
GEMÄSS ACCORDING TO	IEC EN 61386	IEC EN 61386	IEC EN 61386	IEC EN 61386
ZULASSUNGEN & ATTRIBUTE				
CERTIFICATION & PROPERTIES				

PASSENDEN VERSCHRAUBUNGEN UND ZUBEHÖR SUITABLE FITTINGS AND ACCESSORIES	Seite/page 24 NMF starr rigid	Seite/page 26 SVMF starr rigid	Seite/page 28 CMMF starr rigid	Seite/page 31 CMF Innengewinde female thread	Seite/page 32 CMPR Zugentlastung strain relief
	Seite/page 25 NMG drehbar swivelling	Seite/page 27 SVMG drehbar swivelling	Seite/page 30 CMMG drehbar swivelling	Seite/page a.A. CMFG drehbar swivelling	Seite/page 34 CMCC Bogen 90° elbow 90°



DAR

Seite 17

Verstärktes Profil, doppelt verklammert, (Agraff), mit **PVC-UMMANTELUNG**, flexibel, Schutz gegen mechanische Beanspruchung, flüssigkeitsdicht, zugfest.

Reinforced profile, double seam (Agraff) with **PVC-COVER**, flexible, protection against mechanical stress, liquid tight, high tensile strength.

Stahl verzinkt/PVC galvanised steel/PVC

10 - 100

-20°C - +60°C

UL94 V0

IP 68

IEC EN 61386

DARX

Seite 18

Verstärktes Profil, doppelt verklammert, (Agraff), **EDELSTAHL** mit **PVC-UMMANTELUNG**, flexibel, Schutz gegen starke mechanische Beanspruchung, flüssigkeitsdicht, zugfest.

Reinforced profile, double seam (Agraff) with **STAINLESS STEEL** with **PVC-COVER**, flexible, protection against high mechanical stress, liquid tight, high tensile strength.

Edelstahl 1.4301/PVC stainl. steel AISI 304/PVC

10 - 100

-20°C - +60°C

UL94 V0

IP 68

IEC EN 61386

LPU

Seite 19

Standardprofil, einfach verklammert, mit **HOCH ABRIEBFESTER PU-UMMANTELUNG**, flexibel, Schutz gegen starke mechanische Beanspruchung, flüssigkeitsdicht, zugfest.

Standard profile, single seam, with **HIGHLY ABRASION RESISTANT PU-COVER**, flexible, protection against high mechanical stress, liquid tight, high tensile strength.

Stahl verzinkt/Polyurethan galv.steel/polyurethane

10 - 50

-45°C - +105°C

UL94 V0

IP 68

IEC EN 61386

DAPU

Seite 19

Verstärktes Profil, doppelt verklammert, mit **HOCH ABRIEBFESTER PU-UMMANTELUNG**, flexibel, Schutz gegen starke mechanische Beanspruchung, flüssigkeitsdicht, zugfest.

Reinforced profile, double seam, **HIGHLY ABRASION RESISTANT PU-COVER**, flexible, protection against high mech. stress, liquid tight, high tensile strength.

Stahl verzinkt/Polyurethan galv.steel/polyurethane

10 - 50

-45°C - +105°C

UL94 V0

IP 68

IEC EN 61386

LHT

Seite 20

Standardprofil, einfach verklammert, mit **PVC-UMMANTELUNG** für **HOHE TEMPERATUREN**, flexibel, Schutz gegen mechanische Beanspruchung, flüssigkeitsdicht, zugfest.

Standard profile, single seam, with **PVC-COVER** for **HIGH TEMPERATURES**, flexible, protection against mechanical stress, liquid tight, high tensile strength.

Stahl verzinkt/PVC galvanised steel/PVC

10 - 50

-40°C - +105°C

UL94 V0

IP 68

IEC EN 61386

LHJT

Seite 21

Standardprofil, einfach verklammert mit **PVC/SILICON/GLASSEI-DE-UMMANTELUNG**, flexibel, Schutz vor Flammen, Funkenflug und Dampf, flüssigkeitsdicht, zugfest.

Standard profile, single seam, **PVC/SILICONE/FIBREGLASS-COVER**, flexible, protection against flames, sparks and steam, liquid tight, high tensile strength.

Stahl verzinkt/PVC/Silicon galv. steel/PVC/silicone

10 - 50

-60°C - +260°C

UL94 V0

IP 68

IEC EN 61386



Seite/page a.A.



CMC
Bogen 90°
elbow 90°

Seite/page a.A.



CMFR
Adapter
adapter

Seite/page 36



BCM
Klemmring
clamping ring

Seite/page 36



EESO
Endtülle
bushing

Seite/page 146



M-WM
Bogen 90°
elbow 90°

Seite/page 148



M-FLW
Flange
flange

Seite/page 152



C ...
Abzweigkasten
terminal box

Seite/page a.A.



ARFR
Adapter
adapter

Seite/page 36



CDVT
Erdung
earthing

Seite/page 36



VCM
Endtülle
bushing

Seite/page 86



LRSG
Schelle
clamp

Seite/page 140



M-RED
Adapter
adapter

NZ - NZX



Ausführung construction	Metallschlauch, einfach verklammert metal conduit, single seam	
Werkstoff material	Stahl verzinkt (NZ) Edelstahl 1.4301 (NZX) galvanised steel (NZ) stainl. steel AISI 304 (NZX)	
Temperatur temperature	-60°C - +250°C (NZ) -60°C - +600°C (NZX)	
Schutzart protection	IP50	
gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	NMF	24
Seite page	NMG	25
	SVMF	26
	SVMG	27

Metallschlauch aus verzinktem Stahl (NZ),
Edelstahl (NZX), einfach verklammert
metal conduit made of galvanised steel (NZ),
stainless steel (NZX), single seam

Eigenschaften
properties

flexibel - zugfest - hohe Scheiteldruckfestigkeit - hohe Schlagfestigkeit - Korrosionsschutz (NZX)
flexible - stretch resistant - high compressive strength - high impact strength - stainless steel (NZX)

Anwendungen
application

Maschinenbau
machine-building ✓

Elektroinstallation
electro-installation ✓

Fahrzeugbau
automotive ✓

EMV-Anwendungen
EMC-application

Automation
automation ✓

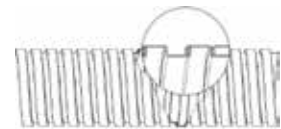
Bahn
railway ✓

Schiffsbau
shipbuilding ✓

EX-Anwendungen
EX-application ✓

Art. Nr. art. no.	Art. Nr. art. no.	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm +/- 15 %	VPE unit
NZ07	NZX07	7	7,0	9,0	16	100m
NZ08	NZX08	8	8,0	11,0	16	50m
NZ09	NZX09	9	9,0	11,5	18	50m
NZ10	NZX10	10	10,0	13,0	19	50m
NZ11	NZX11	11	11,0	14,0	20	50m
NZ12	NZX12	12	12,0	15,0	22	50m
NZ13	NZX13	13	13,0	16,0	24	50m
NZ14	NZX14	14	14,0	17,0	25	50m
NZ15	NZX15	15	15,5	18,5	27	50m
NZ17	NZX17	17	17,0	19,0	30	50m
NZ18	NZX18	18	18,0	21,5	30	50m
NZ20	NZX20	20	20,5	24,0	33	50m
NZ21	NZX21	21	21,0	24,5	35	50m
NZ25	NZX25	25	25,0	28,5	41	50m
NZ27	NZX27	27	26,5	30,0	43	50m
NZ28	NZX28	28	28,0	31,5	45	50m
NZ30	NZX30	30	30,0	33,5	49	25m
NZ35	NZX35	35	35,0	39,5	127	25m
NZ37	NZX37	37	37,0	41,3	134	25m
NZ40	NZX40	40	40,0	44,3	144	25m
NZ45	NZX45	45	45,0	49,3	161	25m
NZ50	NZX50	50	50,5	54,8	178	25m

Einfache Verklammerung
single seam



Für CM-Serie: Einschraubset
EESO - BCM - NZ
for CM-series: screw-in set
EESO - BCM - NZ

DAN - NDX



Ausführung construction	Metallschlauch, doppelt verklammert metal conduit, double seam	
Werkstoff material	Stahl verzinkt (DAN) Edelst. 1.4301 (NDX) galvanised steel (DAN) stainl. AISI 304 (NDX)	
Temperatur temperature	-60°C - +250°C (DAN) -60°C - +600°C (NDX)	
Schutzart protection	IP50	
gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	NMF	24
Seite page	NMG	25
	SVMF	26
	SVMG	27

Metallschlauch aus verzinktem Stahl (DAN), Agraffprofil
Edelstahl (NDX), doppelt verklammert
metal conduit made of galvanised steel (DAN), agraff profile
stainless steel (NDX), double seam



Eigenschaften
properties

flexibel - zugfest - hohe Scheiteldruckfestigkeit - hohe Schlagfestigkeit - Korrosionsschutz (NDX) - Agraff Profil
flexible - stretch resistant - high compressive strength - high impact strength - stainless steel (NDX) - agraff profile

Anwendungen
application

Maschinenbau
machine-building ✓

Elektroinstallation
electro-installation ✓

Fahrzeugbau
automotive ✓

EMV-Anwendungen
EMC-application ✓

Automation
automation ✓

Bahn
railway ✓

Schiffsbau
shipbuilding ✓

EX-Anwendungen
EX-application ✓

Art. Nr. art. no.	Art. Nr. art. no.	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm +/- 15 %	VPE unit
DAN010	NDX10	10	10,0	13,0	35	50m
DAN012	NDX12	12	12,0	15,0	40	50m
DAN013	NDX13	13	13,0	16,0	44	50m
DAN015	NDX15	15	15,5	18,5	51	50m
DAN018	NDX18	18	18,0	21,0	78	50m
DAN020	NDX20	20	20,5	24,1	88	50m
DAN025	NDX25	25	25,0	28,0	107	50m
DAN027	NDX27	27	26,5	29,5	113	50m
DAN033	NDX33	33	33,0	36,6	105	25m
DAN035	NDX35	35	35,0	38,6	110	25m
DAN040	NDX40	40	40,0	43,6	126	25m
DAN050	NDX50	50	50,5	54,1	157	25m
DAN065	NDX65	65	65,0	70,0	259	25m
DAN075	NDX75	75	75,0	80,0	298	25m
DAN100	NDX100	100	100,0	105,0	393	25m

Doppelte Verklammerung
double seam



Für CM-Serie: Einschraubset
EESO - BCM - NZ
for CM-series: screw-in set
EESO - BCM - DAN

T - TX



Ausführung construction	Metallschlauch, einfach verklammert, Stahlgeflecht, metal conduit, single seam, steel braid	
Werkstoff material	Stahl verzinkt (T) Edelstahlgeflecht (TX) galvanised steel (T) stainl. steel braid (TX)	
Temperatur temperature	-60°C - +250°C (T) -60°C - +600°C (TX)	
Schutzart protection	IP50	
Gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	CMMF	28
	CMMG	30
	CMF	31
	CMPR	32
	CMCC	34
Seite page		

Metallschlauch aus verzinktem Stahl, einfach verklammert
metal conduit made of galvanised steel, single seam



Geflecht Stahl verzinkt (T) oder Edelstahl (TX)
galvanised steel braid (T) or stainless steel (TX)

Eigenschaften
properties

flexibel - zugfest - hohe Scheiteldruckfestigkeit - hohe Schlagfestigkeit - Korrosionsschutz (TX)

Schutz vor heißen Spänen - EMV

flexible - stretch resistant - high compressive strength - high impact strength - stainless steel (TX)
protection from hot swarf - EMC

Anwendungen
application

Maschinenbau
machine-building ✓

Elektroinstallation
electro-installation ✓

Fahrzeugbau
automotive ✓

EMV-Anwendungen
EMC-application ✓

Automation
automation

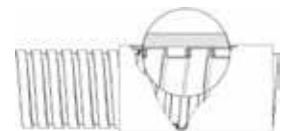
Bahn
railway ✓

Schiffsbau
shipbuilding ✓

EX-Anwendungen
EX-application ✓

Art. Nr. art. no.	Art. Nr. VA Geflecht art. no. INOX braid	NW DN	ID mm	AD mm OD mm	Biegeradius bending radius +/- 15 %	VPE unit
T09	T09X	9	8,5	13,0	30	50m
T10	T10X	10	10,0	14,0	40	50m
T12	T12X	12	12,0	16,0	50	50m
T13	T13X	13	13,0	18,0	60	50m
T15	T15X	15	15,5	20,0	60	50m
T18	T18X	18	18,0	24,0	65	50m
T20	T20X	20	20,5	26,0	65	50m
T25	T25X	25	25,0	31,0	70	50m
T27	T27X	27	26,5	33,0	90	50m
T33	T33X	33	33,0	40,0	140	25m
T35	T35X	35	35,0	42,0	150	25m
T40	T40X	40	40,0	47,0	170	25m
T50	T50X	50	50,5	57,0	200	25m

Einfache Verklammerung
single seam



Alternativ BCM-EMV



TP - TPX



Ausführung construction	Metallschlauch, einfach verklammert, Stahlgeflecht, Baumwolldichtung metal conduit, single seam, steel braid, cotton seal	
Werkstoff material	Stahl verzinkt (TP) Edelstahlgeflecht (TPX) Baumwolldichtung galvanised steel (TP) stainl. steel braid (TPX) cotton seal	
Temperatur temperature	-50°C - +150°C	
Schutzart protection	IP55	
Gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	CMMF	28
	CMMG	30
	CMF	31
	CMPR	32
	CMCC	34
Seite page		

Metallschlauch aus verzinktem Stahl, einfach verklammert
metal conduit made of galvanised steel, single seam

Baumwolldichtung (TP)
cotton seal (TP)



Geflecht Stahl verzinkt (T/TP) oder Edelstahl (...X)
Galvanised steel braid (T/TP) or stainless steel (...X)

Eigenschaften
properties

flexibel - zugfest - hohe Scheiteldruckfestigkeit - hohe Schlagfestigkeit - Korrosionsschutz (TPX)
Schutz vor heißen Spänen - zusätzliche Dichtung - EMV
flexible - stretch resistant - high compressive strength - high impact strength - stainless steel (TPX)
protection from hot swarf - additional seal - EMC

Anwendungen
application

- Maschinenbau
machine-building ✓
- Elektroinstallation
electro-installation ✓
- Fahrzeugbau
automotive ✓
- EMV-Anwendungen
EMC-application ✓
- Automation
automation ✓
- Bahn
railway ✓
- Schiffsbau
shipbuilding ✓
- EX-Anwendungen
EX-application ✓

Art. Nr. art. no.	Art. Nr. VA Geflecht art. no. INOX braid	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm +/- 15 %	VPE unit
TP09	TP09X	9	8,5	13,0	30	50m
TP10	TP10X	10	10,0	14,0	40	50m
TP12	TP12X	12	12,0	16,0	50	50m
TP13	TP13X	13	13,0	18,0	60	50m
TP15	TP15X	15	15,5	20,0	60	50m
TP18	TP18X	18	18,0	24,0	65	50m
TP20	TP20X	20	20,5	26,0	65	50m
TP25	TP25X	25	25,0	31,0	70	50m
TP27	TP27X	27	26,5	33,0	90	50m
TP33	TP33X	33	33,0	40,0	140	25m
TP35	TP35X	35	35,0	42,0	150	25m
TP40	TP40X	40	40,0	47,0	170	25m
TP50	TP50X	50	50,5	57,0	200	25m
TP65	TP65X	65	65,0	73,0	270	27m

Einfache Verklammerung
single seam



Alternativ BCM-EMV



SV



Ausführung construction	Metallschlauch, einfach verklammert, PVC-Ummantelung metal conduit, single seam, PVC-cover	
Werkstoff material	Stahl verzinkt / PVC galvanised steel / PVC	
Temperatur temperature	-15°C - +70°C	
Schutzart protection	IP68	
gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	NMF	24
Seite page	NMG	25
	SVMF	26
	SVMG	27

Metallschlauch aus verzinktem Stahl, einfach verklammert
metal conduit made of galvanised steel, single seam

PVC-Ummantelung
PVC-cover



Eigenschaften
properties

flexibel - zugfest - hohe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - flammwidrig
benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei
flexible - stretch resistant - high compressive strength - liquid tight - self extinguishing - UV-resistant - flame retardant
petrol resistant - oil resistant - acid resistant - free of silicone and cadmium

Anwendungen
application

Maschinenbau
machine-building ✓

Elektroinstallation
electro-installation ✓

Fahrzeugbau
automotive ✓

EMV-Anwendungen
EMC-application

Automation
automation ✓

Bahn
railway

Schiffsbau
shipbuilding ✓

EX-Anwendungen
EX-application

Art. Nr. schw. art. no. black	Art. Nr. grau art. no. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm +/- 15 %	VPE unit
SV07N	SV07G	7	7,0	10,0	25	100m
SV09N	SV09G	9	9,0	11,5	30	100m
SV10N	SV10G	10	10,0	13,5	40	50m
SV12N	SV12G	12	12,0	15,5	45	50m
SV13N	SV13G	13	13,0	16,5	50	50m
SV15N	SV15G	15	15,5	19,0	60	50m
SV20N	SV20G	20	20,5	25,0	70	50m
SV21N	SV21G	21	21,0	26,0	75	50m
SV25N	SV25G	25	25,0	30,0	100	50m
SV28N	SV28G	28	28,0	32,5	120	25m
SV37N	SV37G	37	37,0	42,5	150	25m
SV40N	SV40G	40	40,0	45,0	160	25m
SV45N	SV45G	45	45,0	51,0	180	25m
SV50N	SV50G	50	50,5	56,0	200	25m
SV52N	SV52G	52	52,0	58,0	230	25m

Einfache Verklammerung
single seam





SVPEVA

Ausführung construction	Metallschlauch, einfach verklammert, PE/EVA-Ummantelung metal conduit, single seam, PE/EVA-cover	
Werkstoff material	Stahl verzinkt / PE-EVA galvanised steel / PE-EVA	
Temperatur temperature	-30°C - +90°C (kurzztg./short term +105°C)	
Schutzart protection	IP68	
gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	NMF	24
Seite page	NMG	25
	SVMF	26
	SVMG	27

Metallschlauch aus verzinktem Stahl, einfach verklammert
metal conduit made of galvanised steel, single seam

PE-Ummantelung
PE-cover



Eigenschaften
properties

flexibel - zugfest - hohe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - halogenfrei
flammwidrig - benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei -
höhere Temperatur

flexible - stretch resistant - high compressive strength - liquid tight - self extinguishing - UV-resistant - free of halogene
flame retardant - petrol resistant - oil resistant - acid resistant - free of silicone and cadmium - higher temperature

Anwendungen
application

Maschinenbau
machine-building ✓

Elektroinstallation
electro-installation ✓

Fahrzeugbau
automotive ✓

EMV-Anwendungen
EMC-application

Automation
automation ✓

Bahn
railway ✓

Schiffsbau
shipbuilding ✓

EX-Anwendungen
EX-application

Art. Nr. art. no.	Art. Nr. art. no.	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm +/- 15 %	VPE unit
SVPEVA10	-	10	10	13,5	40	50
SVPEVA12	-	12	12	15,5	45	50
SVPEVA15	-	15	15,5	19,0	60	50
SVPEVA20	-	20	20,5	25,0	70	50
SVPEVA27	-	27	26,6	31,7	140	50
SVPEVA35	-	35	34,8	41	155	25
SVPEVA40	-	40	39,7	46	180	25
SVPEVA50	-	50	49,9	56	315	25

Einfache Verklammerung
single seam



SVT - SVTX



Ausführung construction	Metallschlauch, einfach verklammert, PVC-Ummantlung, Stahlgeflecht metal conduit, single seam, PVC-cover, steel braid	
Werkstoff material	Stahl verzinkt / PVC / verz. Stahlgeflecht (SVT) Edelstahlgeflecht (SVTX) galvanised steel / PVC / galvanised steel braid stainl. steel braid (SVTX)	
Temperatur temperature	-15°C - +70°C	
Schutzart protection	IP68	
Gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	CMMF	28
Seite page	CMMG	30
	CMF	31
	CMPR	32
	CMCC	34

Metallschlauch aus verzinktem Stahl, einfach verklammert
metal conduit made of galvanised steel, single seam

PVC-Ummantlung
PVC-cover



Geflecht Stahl verzinkt oder Edelstahl (...X)
galvanised steel braid or stainless steel (...X)

Eigenschaften
properties

flexibel - zugfest - hohe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - flammwidrig
benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei - hohe Schlagfestigkeit
Korrosionsschutz (SVTX) - Schutz vor heißen Spänen - EMV

flexible - stretch resistant - high compressive strength - liquid tight - self extinguishing - UV-resistant - flame retardant
petrol resistant - oil resistant - acid resistant - free of silicone and cadmium - high impact strength - stainless steel (SVTX)
protection from hot swarf - EMC

Anwendungen
application

Maschinenbau
machine-building ✓

Elektroinstallation
electro-installation ✓

Fahrzeugbau
automotive ✓

EMV-Anwendungen
EMC-application ✓

Automation
automation ✓

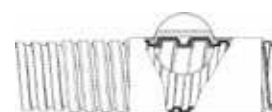
Bahn
railway

Schiffsbau
shipbuilding ✓

EX-Anwendungen
EX-application ✓

Art. Nr. art. no.	Art. Nr. VA Geflecht art. no. INOX braid	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm +/- 15 %	VPE unit
SVT09	SVT09X	9	8,5	13,0	40	50m
SVT10	SVT10X	10	10,0	15,0	40	50m
SVT12	SVT12X	12	12,0	17,0	50	50m
SVT13	SVT13X	13	13,0	19,0	50	50m
SVT15	SVT15X	15	15,5	21,0	55	50m
SVT18	SVT18X	18	18,0	25,0	60	50m
SVT20	SVT20X	20	20,5	27,0	60	50m
SVT25	SVT25X	25	25,0	32,0	75	50m
SVT27	SVT27X	27	26,5	34,0	85	50m
SVT33	SVT33X	33	33,0	41,0	130	25m
SVT35	SVT35X	35	35,0	43,0	150	25m
SVT40	SVT40X	40	40,0	48,0	180	25m
SVT50	SVT50X	50	50,5	58,5	250	25m

Einfache Verklammerung
single seam



Alternativ BCM-EMV



SVPEVAT - ...TX



Ausführung construction	Metallschlauch, einfach verklammert, PE/EVA-Ummantelung, Stahl-Edelstahl Geflecht metal conduit, single seam, PE/EVA-cover, steel-stainless steel	
Werkstoff material	Stahl verzinkt / PE/EVA-Edelstahl (TX) galv. steel / PE/EVA stainless steel (TX)	
Temperatur temperature	-30°C - +90°C (kurzzeitg./short term +105°C)	
Schutzart protection	IP68	
Gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	CMMF	28
Seite page	CMMG	30
	CMF	31
	CMPR	32
	CMCC	34

Metallschlauch aus verzinktem Stahl, einfach verklammert
metal conduit made of galvanised steel, single seam

PE-Ummantelung
PE-cover



Geflecht Stahl verzinkt oder Edelstahl (...X)
galvanised steel braid or stainless steel (...X)

Eigenschaften
properties

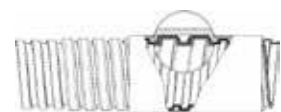
flexibel - zugfest - hohe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - halogenfrei - flammwidrig - benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei - höhere Temperatur hohe Schlagfestigkeit - Korrosionsschutz (SVPEVATX) - Schutz vor heißen Spänen - EMV
flexible - stretch resistant - stretch compression - liquid tight - self extinguishing - UV-resistant - free of halogene - flame retardant - petrol resistant - oil resistant - acid resistant - free of silicone and cadmium - higher temperature - high impact strength - stainless steel (SVPEVATX) - protection from hot swarf - EMC

Anwendungen
application

- Maschinenbau**
machine-building ✓
- Elektroinstallation**
electro-installation ✓
- Fahrzeugbau**
automotive ✓
- EMV-Anwendungen**
EMC-application ✓
- Automation**
automation ✓
- Bahn**
railway ✓
- Schiffsbau**
shipbuilding ✓
- EX-Anwendungen**
EX-application ✓

Art. Nr. art. no.	Art. Nr. VA Geflecht art. no. INOX braid	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm +/- 15 %	VPE unit
SVPEVAT10	SVPEVAT10X	10	10,0	15,0	40	50m
SVPEVAT12	SVPEVAT12X	12	12,0	17,0	50	50m
SVPEVAT15	SVPEVAT15X	15	15,5	21,0	55	50m
SVPEVAT20	SVPEVAT20X	20	20,5	27,0	60	50m
SVPEVAT27	SVPEVAT27X	27	26,5	34,0	85	50m
SVPEVAT35	SVPEVAT35X	35	35,0	43,0	150	25m
SVPEVAT40	SVPEVAT40X	40	40,0	48,0	180	25m
SVPEVAT50	SVPEVAT50X	50	50,5	58,5	250	25 m

Einfache Verklammerung
single seam



Alternativ BCM-EMV





L

Ausführung construction	Metallschlauch, einfach verklammert, PVC-Ummantelung metal conduit, single seam, PVC-cover	
Werkstoff material	Stahl verzinkt / PVC-Ummantelung galvanised steel / PVC-cover	
Temperatur temperature	-20°C - +70°C	
Schutzart protection	IP68	
Gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	CMMF	28
Seite page	CMMG	30
	CMF	31
	CMPR	32
	CMCC	34

Metallschlauch aus verzinktem Stahl, einfach verklammert
metal conduit made of galvanised steel, single seam



dicker und robuster PVC-Mantel
thick and robust PVC-cover

Eigenschaften
properties

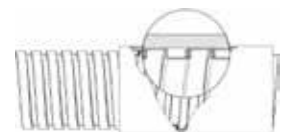
flexibel - zugfest - hohe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - flammwidrig
benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei - hohe Schlagfestigkeit
flexible - stretch resistant - high compression - liquid tight - self extinguishing - UV-resistant - flame retardant
petrol resistant - oil resistant - acid resistant - free of silicone and cadmium - high impact strength

Anwendungen
application

- Maschinenbau**
machine-building ✓
- Elektroinstallation**
electro-installation ✓
- Fahrzeugbau**
automotive ✓
- EMV-Anwendungen**
EMC-application
- Automation**
automation ✓
- Bahn**
railway
- Schiffsbau**
shipbuilding ✓
- EX-Anwendungen**
EX-application

Art. Nr. schw. art. no. black	Art. Nr. grau art. no. grey	Art. Nr. EX art. no. EX	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm +/- 15 %	VPE unit
L09N	L09G	EXL09N	9	8,5	13,0	40	50m
L10N	L10G	EXL10N	10	10,0	15,0	50	50m
L12N	L12G	EXL12N	12	12,0	17,0	60	50m
L13N	L13G	EXL13N	13	13,0	19,0	65	50m
L15N	L15G	EXL15N	15	15,5	21,0	70	50m
L18N	L18G	EXL18N	18	18,0	25,0	80	50m
L20N	L20G	EXL20N	20	20,5	27,0	90	50m
L25N	L25G	EXL25N	25	25,0	32,0	110	25m
L27N	L27G	EXL27N	27	26,5	34,0	120	25m
L33N	L33G	EXL33N	33	33,0	41,0	140	20m
L35N	L35G	EXL35N	35	35,0	43,0	150	20m
L40N	L40G	EXL40N	40	40,0	48,0	200	20m
L50N	L50G	EXL50N	50	50,5	58,5	250	20m

Einfache Verklammerung
single seam



DAR



Ausführung construction	Metallschlauch, doppelt verklammert. PVC-Ummantelung metal conduit, double seam, PVC-cover	
Werkstoff material	Stahl verzinkt PVC-Ummantelung galvanised steel PVC-cover	
Temperatur temperature	-20°C - +70°C	
Schutzart protection	IP68	
Gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	CMMF	28
Seite page	CMMG	30
	CMF	31
	CMPR	32
	CMCC	34

Metallschlauch aus verzinktem Stahl, Agraffprofil
metal conduit made of galvanised steel, agraff profile



dicker und robuster PVC-Mantel
thick and robust PVC-cover

Eigenschaften
properties

flexibel - zugfest - hohe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - flammwidrig
Agraffprofil - benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei
hohe Schlagfestigkeit - Internationale Zulassung
flexible - stretch resistant - high compressive strength - liquid tight - self extinguishing - UV-resistant - flame retardant
Agraff profile - petrol resistant - oil resistant - acid resistant - free of silicone and cadmium - high impact strength
international approval

Anwendungen
application

- | | | | |
|------------------------------------|---|------------------------------|------------------------------------|
| Maschinenbau
machine-building ✓ | Elektroinstallation
electro-installation ✓ | Fahrzeugbau
automotive ✓ | EMV-Anwendungen
EMC-application |
| Automation
automation ✓ | Bahn
railway | Schiffsbau
shipbuilding ✓ | EX-Anwendungen
EX-application |

Art. Nr. schw. art. no. black	Art. Nr. grau art. no. grey	Art. Nr. EX. art. no. EX	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm +/- 15 %	VPE unit
DAR010N	DAR010G	EXDAR010N	10	10,0	15,0	60	50m
DAR012N	DAR012G	EXDAR012N	12	12,0	17,0	70	50m
DAR013N	DAR013G	EXDAR013N	13	13,0	19,0	80	50m
DAR015N	DAR015G	EXDAR015N	15	15,5	21,0	90	50m
DAR018N	DAR018G	EXDAR018N	18	18,0	25,0	100	50m
DAR020N	DAR020G	EXDAR020N	20	20,5	27,0	120	50m
DAR025N	DAR025G	EXDAR025N	25	25,0	32,0	130	25m
DAR027N	DAR027G	EXDAR027N	27	26,5	34,0	140	25m
DAR033N	DAR033G	EXDAR033N	33	33,0	41,0	180	20m
DAR035N	DAR035G	EXDAR035N	35	35,0	43,0	190	20m
DAR040N	DAR040G	EXDAR040N	40	40,0	48,0	240	20m
DAR050N	DAR050G	EXDAR050N	50	50,5	58,5	300	20m
DAR065N	DAR065G	EXDAR065N	65	65,0	74,0	450	20m
DAR075N	DAR075G	EXDAR075N	75	75,0	84,0	500	20m
DAR100N	DAR100G	EXDAR100N	100	100,0	109,0	750	10m

Doppelte Verklammerung
double seam



DARX



RINA



Ausführung construction	Metallschlauch, doppelt verklammert. PVC-Ummantelung metal conduit, double seam, PVC-cover	
Werkstoff material	Edelstahl PVC-Ummantelung stainless steel PVC-cover	
Temperatur temperature	-20°C - +70°C	
Schutzart protection	IP68	
Gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	CMMF	28
Seite page	CMMG	30
	CMF	31
	CMPR	32
	CMCC	34

Metallschlauch aus verzinktem Stahl, Edelstahl, Agraffprofil
metal conduit made from galvanized steel, stainless steel, agraff profile



dicker und robuster PVC Mantel
thick and robust PVC cover

Eigenschaften
properties

flexibel - zugfest - hohe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - flammwidrig
Agraff Profil - benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei
hohe Schlagfestigkeit - Korrosionsschutz
flexible - stretch resistant - high compressive strength - liquid tight - self extinguishing - UV-resistant - flame retardant -
Agraff profile - petrol resistant - oil resistant - acid resistant - free of silicone and cadmium - high impact strength
stainless steel

Anwendungen
application

Maschinenbau
machine-building



Elektroinstallation
electro-installation



Fahrzeugbau
automotive



EMV-Anwendungen
EMC-application

Automation
automation



Bahn
railway

Schiffsbau
shipbuilding



EX-Anwendungen
EX-application

Art. Nr. schw. art. no. black	Art. Nr. grau art. no. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm +/- 15 %	VPE unit
DARX010N	DARX010G	10	10,0	15,0	60	50m
DARX012N	DARX012G	12	12,0	17,0	70	50m
DARX013N	DARX013G	13	13,0	19,0	80	50m
DARX015N	DARX015G	15	15,5	21,0	90	50m
DARX018N	DARX018G	18	18,0	25,0	100	50m
DARX020N	DARX020G	20	20,5	27,0	120	50m
DARX025N	DARX025G	25	25,0	32,0	130	25m
DARX027N	DARX027G	27	26,5	34,0	140	25m
DARX033N	DARX033G	33	33,0	41,0	180	20m
DARX035N	DARX035G	35	35,0	43,0	190	20m
DARX040N	DARX040G	40	40,0	48,0	240	20m
DARX050N	DARX050G	50	50,5	58,5	300	20m
DARX065N	DARX065G	65	65,0	74,0	450	20m
DARX075N	DARX075G	75	75,0	84,0	500	20m
DARX100N	DARX100G	100	100,0	109,0	750	10m

Doppelte Verklammerung
double seam





LPU - DAPU

Ausführung construction	Metallschlauch, einfach verklammert, (doppelt verklammert DAPU), PU-Ummantelung metal conduit, single seam, (double seam DAPU), PU-cover	
Werkstoff material	Stahl verzinkt PU-Ummantelung galvanised steel PU-cover	
Temperatur temperature	-45°C - +105°C (kurzzeitg./short term +130°C)	
Schutzart protection	IP68	
Gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	CMMF	28
Seite page	CMMG	30
	CMF	31
	CMPR	32
	CMCC	34

Metallschlauch aus verzinktem Stahl, einfach verklammert (LPU), oder doppelt verklammert (DAPU)
metal conduit made of galvanised steel, single seam (LPU), or double seam (DAPU)



dicker und robuster PU-Mantel
thick and robust PU-cover

Eigenschaften
properties

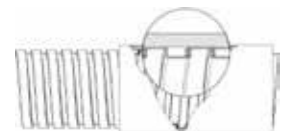
flexibel - zugfest - hohe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - halogenfrei
flammwidrig - benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei -
höhere Temperatur - Schlagfestigkeit
flexible - stretch resistant - high compressive strength - liquid tight - self extinguishing - UV-resistant - free of halogene
flame retardant - petrol resistant - oil resistant - acid resistant - free of silicone and cadmium - higher temperature
high impact resistant

Anwendungen
application

- Maschinenbau**
machine-building ✓
- Elektroinstallation**
electro-installation ✓
- Fahrzeugbau**
automotive ✓
- EMV-Anwendungen**
EMC-application
- Automation**
automation ✓
- Bahn**
railway ✓
- Schiffsbau**
shipbuilding ✓
- EX-Anwendungen**
EX-application

Art. Nr. art. no.	Art. Nr. art. no.	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm +/- 15 %	VPE unit
LPU09	-	9	8,5	13,0	40	50m
LPU10	-	10	10,0	15,0	50	50m
LPU12	-	12	12,0	17,0	60	50m
LPU15	-	15	15,5	21,0	70	50m
LPU20	-	20	20,5	27,0	90	50m
LPU25	-	25	25,0	32,0	110	25m
LPU27	-	27	26,5	34,0	120	25m
LPU33	-	33	33,0	41,0	140	20m
LPU35	-	35	35,0	43,0	150	20m
LPU40	-	40	40,0	48,0	200	20m
LPU50	-	50	50,5	58,5	250	20m

Einfache Verklammerung
single seam



Art. Nr. art. no.	Art. Nr. art. no.	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm +/- 15 %	VPE unit
DAPU10	-	10	10,0	15,0	60	50m
DAPU12	-	12	12,0	17,0	70	50m
DAPU15	-	15	15,5	21,0	90	50m
DAPU20	-	20	20,5	27,0	120	50m
DAPU25	-	25	25,0	32,0	130	25m
DAPU27	-	27	26,5	34,0	140	25m
DAPU33	-	33	33,0	41,0	180	20m
DAPU35	-	35	35,0	43,0	190	20m
DAPU40	-	40	40,0	48,0	240	20m
DAPU50	-	50	50,5	58,5	300	20m

Doppelte Verklammerung
double seam





LHT

Ausführung construction	Metallschlauch, einfach verklammert, PVC-Ummantelung metal conduit, single seam, PVC-cover	
Werkstoff material	Stahl verzinkt / PVC galvanised steel / PVC	
Temperatur temperature	-40°C - +105°C (kurzzeitg./short term +120°C)	
Schutzart protection	IP68	
gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	CMMF	28
Seite page	CMMG	30
	CMF	31
	CMFR	32
	CMCC	34

Metallschlauch aus verzinktem Stahl, einfach verklammert
metal conduit made of galvanised steel, single seam



Dicker und robuster PVC-Mantel für hohe Temperaturen
thick and robust PVC-cover for high temperatures

Eigenschaften
properties

flexibel - zugfest - hohe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - halogenfrei flammwidrig - benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei hohe Schlagfestigkeit - höhere Temperaturen
flexible - stretch resistant - high compressive strength - liquid tight - self extinguishing - UV-resistant - free of halogene flame retardant petrol resistant - oil resistant - acid resistant - free of silicone and cadmium - high impact resistant higher temperature

Anwendungen
application

- Maschinenbau**
machine-building ✓
- Elektroinstallation**
electro-installation ✓
- Fahrzeugbau**
automotive ✓
- EMV-Anwendungen**
EMC-application
- Automation**
automation ✓
- Bahn**
railway
- Schiffsbau**
shipbuilding ✓
- EX-Anwendungen**
EX-application

Art. Nr. art. no.	Art. Nr. art. no.	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm +/- 15 %	VPE unit
LHT10	10	10,0	15,0	50	30	50m
LHT12	12	12,0	17,0	60	30	50m
LHT15	15	15,5	21,0	70	30	50m
LHT20	20	20,5	27,0	90	30	50m
LHT27	27	26,5	34,0	120	30	50m
LHT35	35	35,0	43,0	150	30	50m
LHT40	40	40,0	48,0	200	25	25m
LHT50	50	50,5	58,5	250	25	25m

Einfache Verklammerung
single seam



LHJT



Ausführung construction	Metallschlauch, einfach verklammert, PVC-Ummantelung, Hochtemperatur-Schutzschlauch metal conduit, single seam, PVC-cover, high temperature protective hose	
Werkstoff material	Stahl verzinkt / PVC / Silikon-Elastomer-Glasfasergewebe galv. steel / PVC / silicone-elastomer-fibre glass	
Temperatur temperature	-60°C - +260°C	
Schutzart protection	IP68	
gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	NMFHJT	a.A o.r.
Seite page		

Metallschlauch aus verzinktem Stahl, einfach verklammert
metal conduit made of galvanised steel, single seam

Hochtemperatur - Überzug
high temperature cover



dicker und robuster PVC Mantel
thick and robust PVC cover

Eigenschaften
properties

flexibel - zugfest - hohe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - halogenfrei
flammwidrig - benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - sehr hohe Temperaturen
flexible - stretch resistant - high compressive strength - liquid tight - self extinguishing - UV-resistant - free of halogens
flame retardant petrol resistant - oil resistant - acid resistant - very high temperature

Anwendungen
application

Maschinenbau
machine-building ✓
Automation
automation ✓

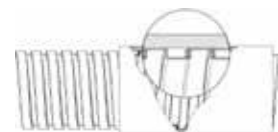
Elektroinstallation
electro-installation ✓
Bahn
railway ✓

Fahrzeugbau
automotive ✓
Schiffsbau
shipbuilding ✓

EMV-Anwendungen
EMC-application
EX-Anwendungen
EX-application

Art. Nr. art. no.	Art. Nr. art. no.	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm +/- 15 %	VPE unit
LHJT10	-	10	10,0	a.A.	-	10m
LHJT12	-	12	12,0	a.A.	-	10m
LHJT15	-	15	15,5	a.A.	-	10m
LHJT20	-	20	20,5	a.A.	-	10m
LHJT27	-	27	26,5	a.A.	-	10m
LHJT35	-	35	35,0	a.A.	-	5m
LHJT40	-	40	40,0	a.A.	-	5m
LHJT50	-	50	50,5	a.A.	-	5m

Einfache Verklammerung
single seam

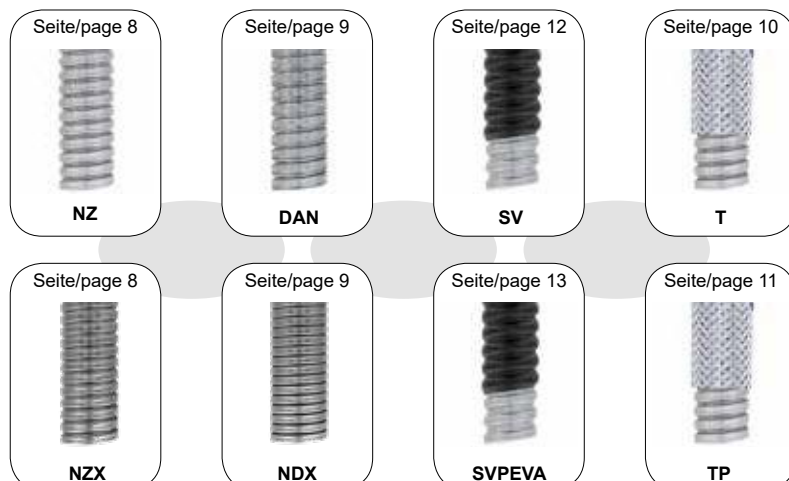




TYP / TYPE	NMF	NMG	SVMF	SVMG
Seite / Page	Seite 24	Seite 25	Seite 26	Seite 27
PRODUKT-EIGENSCHAFTEN PRODUCT FEATURES	Verschraubung für Metallschutzschläuche des Typs NZ, NZX, DAN, NDX, SV und SVPEVA , mit Schlauchtülle, Dichtring und Überwurfmutter, STARRES AUSSEN-GEWINDE . Fitting for metal conduits of type NZ, NZX, DAN, NDX, SV and SVPEVA , with bushing, sealing ring and lock nut, RIGID MALE THREAD .	Verschraubung für Metallschutzschläuche des Typs NZ, NZX, DAN, NDX, SV und SVPEVA , mit Schlauchtülle, Dichtring und Überwurfmutter, DREHBARES AUSSEN-GEWINDE . Fitting for metal conduits of type NZ, NZX, DAN, NDX, SV and SVPEVA , with bushing, sealing ring and lock nut, SWIVELLING MALE THREAD .	Verschraubung für Metallschutzschläuche des Typs NZ, NZX, DAN, NDX, SV und SVPEVA , Montage durch einfaches Eindrehen in den Schutzschlauch, STARRES AUSSEN-GEWINDE . Fitting for metal conduits of type NZ, NZX, DAN, NDX, SV and SVPEVA , easy installation by screwing it into the conduit, RIGID MALE THREAD .	Verschraubung für Metallschutzschläuche des Typs NZ, NZX, DAN, NDX, SV und SVPEVA , Montage durch einfaches Eindrehen in den Schutzschlauch, DREHBARES AUSSEN-GEWINDE . Fitting for metal conduits of type NZ, NZX, DAN, NDX, SV and SVPEVA , easy installation by screwing it into the conduit, SWIVELLING MALE THREAD .
MATERIAL	Messing vernickelt nickel-plated brass	Messing vernickelt nickel-plated brass	Messing vernickelt nickel-plated brass	Messing vernickelt nickel-plated brass
GRÖSSEN - NW SIZES - DN	10 - 50	10 - 50	7 - 52	7 - 52
TEMPERATUR TEMPERATURE	-40°C - +105°C	-40°C - +105°C	-40°C - +200°C	-40°C - +200°C
BRENNBARKEIT FLAMMABILITY	-	-	-	-
SCHUTZART PROTECTION	IP 67	IP 67	IP 40	IP 40
GEMÄSS ACCORDING TO	IEC EN 61386	IEC EN 61386	IEC EN 61386	IEC EN 61386
ZULASSUNGEN & ATTRIBUTE				
CERTIFICATION & PROPERTIES				

PASSENDE
SCHUTZ-
SCHLÄUCHE

SUITABLE
PROTECTIVE
CONDUITS





CMMF

CMMG

CMF

CMPR

CMCC

CMCO

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Verschraubung für Metallschutzschläuche des Typs **L, DAR, DARX, P, LPU, DAPU, T, TP, SVT, SVPUT, SVPEVAT** und LHT, mit Schlauchtülle, Dichtring und Überwurfmutter, **STARRES AUSSENGEWINDE**

Verschraubung für Metallschutzschläuche des Typs **L, DAR, DARX, P, LPU, DAPU, T, TP, SVT, SVPUT, SVPEVAT** und LHT, mit Schlauchtülle, Dichtring und Überwurfmutter, **DREHBARES AUSSENGEWINDE**.

Verschraubung für Metallschutzschläuche des Typs **L, DAR, DARX, P, LPU, DAPU, T, TP, SVT, SVPUT, SVPEVAT** und LHT, mit Schlauchtülle, Dichtring und Überwurfmutter, **STARRES INNENGEWINDE**.

Verschraubung für Metallschutzschläuche des Typs **L, DAR, DARX, P, LPU, DAPU, T, TP, SVT, SVPUT, SVPEVAT** und LHT, mit Schlauchtülle, Dichtring und Überwurfmutter, **MIT ZUGENTLASTUNG**.

90°-BOGEN, Verschraubung für Metallschutzschläuche des Typs **L, DAR, DARX, P, LPU, DAPU, T, TP, SVT, SVPUT, SVPEVAT** und LHT, mit Schlauchtülle, Dichtring und Überwurfmutter.

Verschraubung für Metallschutzschläuche des Typs **L, DAR, DARX, P, LPU, DAPU, T, TP, SVT, SVPUT, SVPEVAT** und LHT, mit Schlauchtülle, Dichtring und Überwurfmutter, **UNEF INNENGEWINDE**.

Fitting for metal conduits of type **L, DAR, DARX, P, LPU, DAPU, T, TP, SVT, SVPUT, SVPEVAT** und LHT, with bushing, sealing ring and lock nut, **RIGID MALE THREAD**.

Fitting for metal conduits of type **L, DAR, DARX, P, LPU, DAPU, T, TP, SVT, SVPUT, SVPEVAT** und LHT, with bushing, sealing ring and lock nut, **SWIVELLING MALE THREAD**.

Fitting for metal conduits of type **L, DAR, DARX, P, LPU, DAPU, T, TP, SVT, SVPUT, SVPEVAT** und LHT, with bushing, sealing ring and lock nut, **RIGID FEMALE THREAD**.

Fitting for metal conduits of type **L, DAR, DARX, P, LPU, DAPU, T, TP, SVT, SVPUT, SVPEVAT** und LHT, with bushing, sealing ring and lock nut, **WITH STRAIN RELIEF**.

90° ELBOW, fitting for metal conduits of type **L, DAR, DARX, P, LPU, DAPU, T, TP, SVT, SVPUT, SVPEVAT** und LHT, with bushing, sealing ring and lock nut.

Fitting for metal conduits of type **L, DAR, DARX, P, LPU, DAPU, T, TP, SVT, SVPUT, SVPEVAT** und LHT, with bushing, sealing ring and lock nut, **UNEF FEMALE THREAD**.

Messing vernickelt
nickel-plated brass

Messing vernickelt
nickel-plated brass

Messing vernickelt
nickel-plated brass

Messing vernickelt
nickel-plated brass

Messing vernickelt
nickel-plated brass

Messing vernickelt
nickel-plated brass

9 - 100

9 - 100

9 - 100

10 - 50

9 - 27

10 - 50

-40°C - +105°C

-40°C - +105°C

-40°C - +105°C

-40°C - +105°C

-40°C - +105°C

-40°C - +105°C

IP 67

IP 67

IP 67

IP 67

IP 67

IP 67

IEC EN 61386

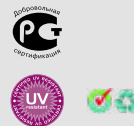
IEC EN 61386

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IEC EN 61386

IEC EN 61386



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TX

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SVTX

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L

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LPU

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DAPU

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LHJT

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SVT

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SVPEVAT

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DAR

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DARX

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LHT

NMF

Ausführung construction	starres Außengewinde rigid male thread	
Werkstoff material	Messing vernickelt nickel-plated brass	
Temperatur temperature	-40°C - +105°C	
Schutzart protection	IP 67	
Gemäß according to	IEC EN 61386	
Für Schlauchtyp for conduit type	NZ	8
	NZX	8
	DAN	9
	NDX	9
Seite page	SV	12
	SVPEVA	13



Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. unit pcs.
NMF10M12	M12	10	20	22	10	8,5	20
NMF10M16	M16	10	20	22	10	8,5	20
NMF10M20	M20	10	22	22	10	8,5	20
NMF12M16	M16	12	22	24	10	10,5	20
NMF12M20	M20	12	22	24	10	10,5	20
NMF13M16	M16	13	24	26	10	11,5	20
NMF13M20	M20	13	24	26	10	11,5	20
NMF15M20	M20	15	26	28	10	13,8	20
NMF18M25	M25	18	28	30	10	16,0	10
NMF20M25	M25	20	32	34	11	18,1	10
NMF27M32	M32	27	40	42	12	24,5	10
NMF35M40	M40	35	50	53	12	32,8	5
NMF40M50	M50	40	58	61	13	37,5	5
NMF50M63	M63	50	70	74	16	47,8	2

Gewindeart PG

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. unit pcs.
NMF10PG09	PG09	10	20	22	10	8,5	20
NMF10PG11	PG11	10	20	22	10	8,5	20
NMF10PG13	PG13	10	22	22	10	8,5	20
NMF12PG09	PG09	12	22	24	10	10,5	20
NMF12PG11	PG11	12	22	24	10	10,5	20
NMF12PG13	PG13	12	22	24	10	10,5	20
NMF13PG11	PG11	13	24	26	10	11,5	20
NMF13PG13	PG13	13	24	26	10	11,5	20
NMF13PG16	PG16	13	24	26	10	11,5	20
NMF15PG13	PG13	15	26	28	10	13,8	20
NMF15PG16	PG16	15	26	28	10	13,8	20
NMF18PG16	PG16	18	28	30	10	16,0	10
NMF20PG21	PG21	20	32	34	11	18,1	10
NMF27PG29	PG29	27	40	42	12	24,5	10
NMF35PG36	PG36	35	50	53	12	32,8	5
NMF40PG36	PG36	40	58	61	17	37,5	5
NMF40PG42	PG42	40	58	61	13	37,5	5
NMF50PG48	PG48	50	70	74	18	47,8	2

Gewindeart Zoll

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. unit pcs.
NMF10	1/4"	10	20	22	10	8,5	20
NMF10A	3/8"	10	20	22	10	8,5	20
NMF10B	1/2"	10	22	22	10	8,5	20
NMF12	3/8"	12	22	24	10	10,5	20
NMF12A	1/2"	12	22	24	10	10,5	20
NMF13	3/8"	13	24	26	10	11,5	20
NMF13A	1/2"	13	24	26	10	11,5	20
NMF15	1/2"	15	26	28	10	13,8	20
NMF18	3/4"	18	28	30	11	16,5	10
NMF20	3/4"	20	32	34	11	18,1	10
NMF27	1"	27	40	42	15	24,5	10
NMF35	1 1/4"	35	50	53	15	32,8	5
NMF40	1 1/2"	40	58	61	18	37,5	5
NMF50	2"	50	70	74	18	47,8	2

NMG



Ausführung construction	drehbares Außengew. swivelling male thread	
Werkstoff material	Messing vernickelt nickel-plated brass	
Temperatur temperature	-40°C - +105°C	
Schutzart protection	IP 67	
Gemäß according to	IEC EN 61386	
Für Schlauchtyp for conduit type	NZ	8
	NZX	8
	DAN	9
	NDX	9
Seite page	SV	12
	SVPEVA	13



Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. unit pcs.
NMG10M12	M12	10	15	22	9	7,0	20
NMG10M16	M16	10	19	22	10	7,0	20
NMG10M20	M20	10	22	22	9	7,0	20
NMG12M16	M16	12	19	24	10	9,0	20
NMG12M20	M20	12	24	24	10	9,0	20
NMG13M16	M16	13	19	26	10	10,0	20
NMG13M20	M20	13	24	26	10	10,0	20
NMG15M20	M20	15	24	28	9,5	10,0	20
NMG18M25	M25	18	30	30	10	16,5	10
NMG20M25	M25	20	30	34	9,5	18,1	10
NMG27M32	M32	27	38	42	13	24	10
NMG35M40	M40	35	45	53	20	32,8	5
NMG40M50	M50	40	52	61	20	37,5	5
NMG50M63	M63	50	64	74	24,5	47,8	2

Gewindeart PG

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. unit pcs.
NMG10PG09	PG09	10	17	22	7	7,0	20
NMG10PG11	PG11	10	20	22	7,5	7,0	20
NMG10PG13	PG13	10	22	22	7,5	7,0	20
NMG12PG09	PG09	12	19	24	8	7,0	20
NMG12PG11	PG11	12	20	24	7,5	10,0	20
NMG12PG13	PG13	12	22	24	7,5	10,0	20
NMG13PG11	PG11	13	20	26	7,5	10,0	20
NMG13PG13	PG13	13	22	26	7,5	10,0	20
NMG13PG16	PG16	13	24	26	7	10,0	20
NMG15PG13	PG13	15	22	28	7,5	10,0	20
NMG15PG16	PG16	15	24	28	7	10,0	20
NMG18PG16	PG16	18	24	30	9	15,0	10
NMG20PG21	PG21	20	30	34	9	18,1	10
NMG27PG29	PG29	27	38	42	12	24,0	10
NMG35PG36	PG36	35	52	53	20	32,8	5
NMG40PG36	PG36	40	52	61	20	37,7	5
NMG40PG42	PG42	40	58	61	20	37,7	5
NMG50PG48	PG48	50	66	74	25	47,8	2

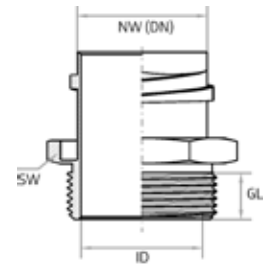
Gewindeart Zoll

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. unit pcs.
NMG10	1/4"	10	15	22	10	7,0	20
NMG10A	3/8"	10	19	22	10	7,0	20
NMG10B	1/2"	10	24	22	10	7,0	20
NMG12	3/8"	12	19	24	10	10,0	20
NMG12A	1/2"	12	24	24	10	10,0	20
NMG13	3/8"	13	19	26	10	10,0	20
NMG13A	1/2"	13	24	26	10	10,0	20
NMG15	1/2"	15	24	28	10	10,0	20
NMG18	3/4"	18	30	30	11	16,5	10
NMG20	3/4"	20	30	34	11	18,1	10
NMG27	1"	27	38	42	15	24,5	10
NMG35	1 1/4"	35	45	53	15	32,8	5
NMG40	1 1/2"	40	52	61	18	37,5	5
NMG50	2"	50	66	74	18	47,8	2

SVMF



Ausführung construction	starres Außengewinde rigid male thread	
Werkstoff material	Messing vernickelt nickel-plated brass	
Temperatur temperature	-40°C - +200°C	
Schutzart protection	IP 40	
Gemäß according to	IEC EN 61386	
Für Schlauchtyp for conduit type	NZ	8
	NZX	8
	DAN	9
	NDX	9
Seite page	SV	12
	SVPEVA	13



Montage durch einfaches Eindrehen in den Metallschlauch
to be installed by screwing it into the metal conduit

Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW mm	GL mm	ID mm	VPE Stk. unit pcs.
SVMF10M16	M16	10	19	10	8,5	20
SVMF12M16	M16	12	19	10	10,0	20
SVMF12M20	M20	12	24	10	10,0	20
SVMF13M20	M20	13	24	10	11,5	20
SVMF15M20	M20	15	24	10	14,0	20
SVMF20M25	M25	20	28	10	18,5	10
SVMF21M25	M25	21	28	11	19,5	10
SVMF25M32	M32	25	36	12	23,0	10
SVMF28M32	M32	28	36	12	26,0	10
SVMF37M40	M40	37	45	12	35,0	5
SVMF45M50	M50	45	55	12	41,5	5
SVMF52M63	M63	52	64	15	48,5	5

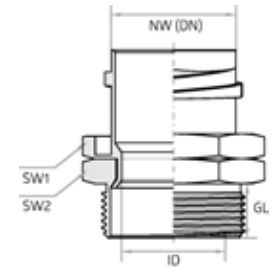
Gewindeart Zoll

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW mm	GL mm	ID mm	VPE Stk. unit pcs.
SVMF07	1/4"	7	15	8	5,5	20
SVMF09	1/4"	8,5	15	8	7,0	20
SVMF10	1/4"	10	19	8	8,5	20
SVMF10A	3/8"	10	19	8	8,5	20
SVMF12	3/8"	12	19	8	10,0	20
SVMF13	1/2"	13	24	10	11,5	20
SVMF15	1/2"	15	24	10	14,0	20
SVMF20	3/4"	20	28	10	18,5	10
SVMF21	3/4"	21	28	11	19,5	10
SVMF25	1"	25	36	12	23,0	10
SVMF28	1"	28	36	12	26,0	10
SVMF37	1 1/4"	37	45	12	35,0	5
SVMF45	1 1/2"	45	55	12	41,5	5
SVMF52	2"	52	64	15	48,5	5

SVMG



Ausführung construction	drehbares Außengew. swivelling male thread	
Werkstoff material	Messing vernickelt nickel-plated brass	
Temperatur temperature	-40°C - +200°C	
Schutzart protection	IP 40	
Gemäß according to	IEC EN 61386	
Für Schlauchtyp for conduit type	NZ NZX DAN NDX SV SVPEVA	8 8 9 9 12 13
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Montage durch einfaches Eindrehen in den Metallschlauch
to be installed by screwing it into the metal conduit

Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. unit pcs.
SVMG07M12	M12	7	14	15	8	5,0	20
SVMG09M12	M12	8,5	15	15	8	6,0	20
SVMG10M16	M16	10	17	19	8	8,5	20
SVMG12M16	M16	12	17	19	8	10,0	20
SVMG12M20	M20	12	17	24	10	10,0	20
SVMG13M16	M20	13	17	19	8	10,0	20
SVMG13M20	M20	13	17	24	10	11,5	20
SVMG15M20	M20	15	22	24	10	14,0	20
SVMG20M25	M25	20	28	30	11	18,5	10
SVMG21M25	M25	21	28	30	11	18,5	10
SVMG25M32	M32	25	32	35	12	23,0	10
SVMG28M32	M32	28	36	35	12	23,0	10
SVMG37M40	M40	37	45	45	14	31,0	5
SVMG45M50	M50	45	55	55	11	42,0	5
SVMG52M63	M63	52	64	64	13	48,0	5

Gewindeart Zoll

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. unit pcs.
SVMGG07	1/4"	7	14	15	8	5,0	20
SVMGG09	1/4"	8,5	15	15	8	6,0	20
SVMGG09A	3/8"	8,5	15	19	8	7,0	20
SVMGG10	3/8"	10	17	19	8	8,5	20
SVMGG10A	1/2"	10	17	24	10	8,5	20
SVMGG12	3/8"	12	17	19	8	10,0	20
SVMGG12A	1/2"	12	17	24	10	10,0	20
SVMGG13	3/8"	13	17	19	8	10,0	20
SVMGG13A	1/2"	13	17	24	10	11,5	20
SVMGG15	1/2"	15	22	24	10	14,0	20
SVMGG15A	3/4"	15	22	30	12	14,0	20
SVMGG20	3/4"	20	28	30	10	18,5	10
SVMGG21	3/4"	21	28	30	10	18,5	10
SVMGG25	1"	25	32	35	12	23,0	10
SVMGG28	1"	28	36	35	12	23,0	10
SVMGG37	1 1/4"	37	45	45	14	31,0	5
SVMGG45	1 1/2"	45	55	55	11	42,0	5
SVMGG52	2"	52	64	64	13	48,0	5

Gewindeart PG

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. unit pcs.
SVMGP07PG07	PG7	7	14	15	8	5,0	20
SVMGP07PG09	PG9	7	14	17	8	5,0	20
SVMGP09PG07	PG7	8,5	15	15	8	6,0	20
SVMGP09PG09	PG9	8,5	15	17	8	7,0	20
SVMGP09PG11	PG11	8,5	15	20	8	7,0	20
SVMGP09PG13	PG13	8,5	15	22	8	7,0	20
SVMGP10PG09	PG9	10	17	17	8	8,5	20
SVMGP10PG11	PG11	10	17	20	8	8,5	20
SVMGP10PG13	PG13	10	17	22	8	8,5	20
SVMGP12PG11	PG11	12	17	20	8	10,0	20
SVMGP12PG13	PG13	12	17	22	8	10,0	20
SVMGP13PG11	PG11	13	17	20	8	10,0	20
SVMGP13PG13	PG13	13	17	22	10	11,5	20
SVMGP15PG13	PG13	15	22	22	10	14,0	20
SVMGP15PG16	PG16	15	22	24	10	14,0	20
SVMGP20PG21	PG21	20	28	30	10	18,5	10
SVMGP21PG21	PG21	21	28	30	10	18,5	10
SVMGP25PG29	PG29	25	32	38	12	23,0	10
SVMGP28PG29	PG29	28	36	38	12	23,0	10
SVMGP37PG36	PG36	37	45	50	14	31,0	5

CMMF



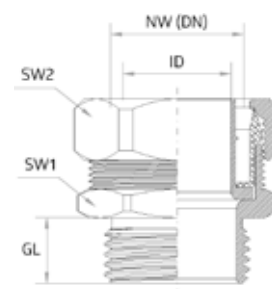
RINA



Ausführung construction	starres Außengewinde rigid male thread
Werkstoff material	Messing vernickelt nickel-plated brass
Temperatur temperature	-40°C - +105°C
Schutzart protection	IP 67
Gemäß according to	IEC EN 61386

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for conduit typeSeite
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Überwurfmutter / locknut
Dichtring / sealing ring (Polyamid)
Tülle / bushing (verzinkt/galvanised)
Verschraubungskörper / body

Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. unit pcs.
CMMF09M12	M12	8,5	20	22	10	7,0	20
CMMF09M16	M16	8,5	20	22	10	7,0	20
CMMF09M20	M20	8,5	22	22	10	7,0	20
CMMF10M12	M12	10	22	24	10	8,5	20
CMMF10M16	M16	10	22	24	10	8,5	20
CMMF10M20	M20	10	22	24	10	8,5	20
CMMF12M16	M16	12	24	26	10	10,5	20
CMMF12M20	M20	12	24	26	10	10,5	20
CMMF13M16	M16	13	26	28	10	11,5	20
CMMF13M20	M20	13	26	28	10	11,5	20
CMMF15M20	M20	15	28	30	10	13,8	20
CMMF15M25	M25	15	28	30	11	13,8	20
CMMF18M20	M20	18	32	34	11	16,5	10
CMMF18M25	M25	18	32	34	11	16,5	10
CMMF20M25	M25	20	35	38	12	18,5	10
CMMF25M32	M32	25	40	42	12	23,0	10
CMMF27M32	M32	27	42	45	12	25,0	10
CMMF33M40	M40	33	50	53	12	31,0	5
CMMF35M40	M40	35	50	53	12	33,0	5
CMMF40M50	M50	40	58	61	13	37,5	5
CMMF50M63	M63	50	70	74	16	48,0	2



Gewindeart PG

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. unit pcs.
CMMFP09PG09	PG09	8,5	20	22	10	7,0	20
CMMFP09PG11	PG11	8,5	20	22	10	7,0	20
CMMFP09PG13	PG13,5	8,5	22	22	10	7,0	20
CMMFP10PG07	PG07	10	22	24	10	8,5	20
CMMFP10PG09	PG09	10	22	24	10	8,5	20
CMMFP10PG11	PG11	10	22	24	10	8,5	20
CMMFP10PG13	PG13,5	10	22	24	10	8,5	20
CMMFP12PG11	PG11	12	24	26	10	10,5	20
CMMFP12PG13	PG13,5	12	24	26	10	10,5	20
CMMFP12PG16	PG16	12	24	26	10	10,5	20
CMMFP13PG11	PG11	13	26	28	10	11,5	20
CMMFP13PG13	PG13,5	13	26	28	10	11,5	20
CMMFP13PG16	PG16	13	26	28	10	11,5	20
CMMFP15PG13	PG13,5	15	28	30	10	13,8	20
CMMFP15PG16	PG16	15	28	30	10	13,8	20
CMMFP18PG16	PG16	18	32	34	11	16,5	10
CMMFP18PG21	PG21	18	32	34	11	16,5	10
CMMFP20PG21	PG21	20	35	38	12	18,5	10
CMMFP25PG29	PG29	25	40	42	12	23,0	10
CMMFP27PG29	PG29	27	42	45	12	25,0	10
CMMFP33PG36	PG36	33	50	53	12	31,0	5
CMMFP35PG36	PG36	35	50	53	12	32,5	5
CMMFP40PG36	PG36	40	58	61	17	37,5	5
CMMFP40PG42	PG42	40	58	61	13	37,5	5
CMMFP50PG48	PG48	50	70	74	18	48,0	2

Gewindeart Zoll

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. unit pcs.
CMMFG009	1/4"	8,5	20	22	10	7,0	20
CMMFG009A	3/8"	8,5	20	22	10	7,0	20
CMMFG009B	1/2"	8,5	22	22	10	7,0	20
CMMFG010	1/4"	10	22	24	10	8,5	20
CMMFG010A	3/8"	10	22	24	10	8,5	20
CMMFG010B	1/2"	10	22	24	10	8,5	20
CMMFG012	3/8"	12	24	26	10	10,5	20
CMMFG012A	1/2"	12	24	26	10	10,5	20
CMMFG013	3/8"	13	26	28	10	11,5	20
CMMFG013A	1/2"	13	26	28	10	11,5	20
CMMFG015	1/2"	15	28	30	11	13,8	20
CMMFG015A	3/4"	15	28	30	11	13,8	20
CMMFG018	1/2"	18	32	34	11	16,5	10
CMMFG018A	3/4"	18	32	34	11	16,5	10
CMMFG020	3/4"	20	35	38	13	18,5	10
CMMFG025	1"	25	40	42	15	23,0	10
CMMFG027	1"	27	42	45	15	25,0	10
CMMFG033	1 1/4"	33	50	53	15	31,0	5
CMMFG035	1 1/4"	35	50	53	15	33,0	5
CMMFG040	1 1/2"	40	58	61	18	37,5	5
CMMFG050	2"	50	70	74	18	48,0	2
CMMFG065	2 1/2"	65	95	95	24	61,0	1
CMMFG075	3"	75	104	104	24	71,0	1
CMMFG100	4"	100	129	129	30	95,0	1

CMMG



Ausführung construction	drehbares Außengew. swivelling male thread
Werkstoff material	Messing vernickelt nickel-plated brass
Temperatur temperature	-40°C - +105°C
Schutzart protection	IP 67
Gemäß according to	IEC EN 61386

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Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	SW3 mm	GL mm	ID mm	VPE Stk. unit pcs.
CMMG09M12	M12	8,5	15	20	22	9	7,0	20
CMMG09M16	M16	8,5	19	20	22	9	7,0	20
CMMG09M20	M20	8,5	22	22	22	9	7,0	20
CMMG10M12	M12	10	15	22	24	9	7,0	20
CMMG10M16	M16	10	19	22	24	9	8,5	20
CMMG10M20	M20	10	24	22	24	9	8,5	20
CMMG12M16	M16	12	19	24	26	9	10,0	20
CMMG12M20	M20	12	24	24	26	9	10,0	20
CMMG13M16	M16	13	19	26	28	9	10,0	20
CMMG13M20	M20	13	24	26	28	9	10,0	20
CMMG15M20	M20	15	24	28	30	9	14,0	20
CMMG15M25	M25	15	30	28	30	10	13,8	20
CMMG18M20	M20	18	24	32	34	9	14,0	10
CMMG18M25	M25	18	30	32	34	10	16,5	10
CMMG20M25	M25	20	30	35	38	10	18,0	10
CMMG20M32	M32	20	38	35	38	13	18,0	10
CMMG25M32	M32	25	38	40	42	13	23,0	10
CMMG27M32	M32	27	38	42	45	13	24,0	10
CMMG33M40	M40	33	45	50	53	18	31,0	5
CMMG35M40	M40	35	45	50	53	18	33,0	5
CMMG40M50	M50	40	52	58	61	20	37,5	5
CMMG50M63	M63	50	64	70	74	24	48,0	2

Gewindeart PG

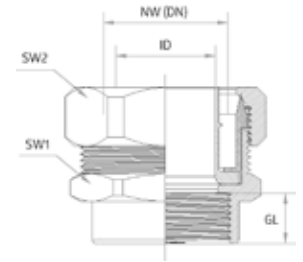
Art. Nr. art. no.	Gewinde thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	SW3 mm	GL mm	ID mm	VPE Stk. unit pcs.
CMMGP09PG07	PG07	8,5	15	20	22	9	7,0	20
CMMGP09PG09	PG09	8,5	17	20	22	7	7,0	20
CMMGP09PG11	PG11	8,5	20	20	22	7	7,0	20
CMMGP09PG13	PG13,5	8,5	22	22	22	7	7,0	20
CMMGP10PG07	PG07	10	15	22	24	9	7,0	20
CMMGP10PG09	PG09	10	17	22	24	7	7,0	20
CMMGP10PG11	PG11	10	20	22	24	7	8,5	20
CMMGP10PG13	PG13,5	10	22	22	24	7	8,5	20
CMMGP10PG16	PG16	10	24	22	24	7	8,5	20
CMMGP12PG11	PG11	12	20	24	26	7	10,0	20
CMMGP12PG13	PG13,5	12	22	24	26	7	10,0	20
CMMGP12PG16	PG16	12	24	24	26	7	10,0	20
CMMGP13PG11	PG11	13	20	26	28	7	10,0	20
CMMGP13PG13	PG13,5	13	22	26	28	7	10,0	20
CMMGP13PG16	PG16	13	24	26	28	7	10,0	20
CMMGP15PG13	PG13,5	15	24	28	30	10	14,0	20
CMMGP15PG16	PG16	15	24	28	30	10	14,0	20
CMMGP15PG21	PG21	15	30	28	30	10	14,0	20
CMMGP18PG13	PG13,5	18	24	32	34	10	14,0	10
CMMGP18PG16	PG16	18	24	32	34	10	14,0	10
CMMGP18PG21	PG21	18	30	32	34	10	16,5	10
CMMGP20PG21	PG21	20	30	35	38	10	18,5	10
CMMGP25PG29	PG29	25	38	40	42	12,5	23,0	10
CMMGP27PG29	PG29	27	38	42	45	12,5	24,0	10
CMMGP33PG36	PG36	33	45	50	53	18,5	31,0	5
CMMGP35PG36	PG36	35	45	50	53	18,5	32,5	5
CMMGP40PG36	PG36	40	52	58	61	20	37,5	5
CMMGP40PG42	PG42	40	58	58	61	20	37,5	5
CMMGP50PG48	PG48	50	65	70	74	24,5	48,0	2

Auf Anfrage
on requestWeitere Gewindearten (NPT / GAS) ✓
further thread types (NPT / GAS)Weitere Materialien (Edelstähle) ✓
further materials (stainless steel)

CMF



Ausführung construction	starres Innengewinde rigid female thread	
Werkstoff material	Messing vernickelt nickel-plated brass	
Temperatur temperature	-40°C - +105°C	
Schutzart protection	IP 67	
Gemäß according to	IEC EN 61386	
Für Schlauchtyp for conduit type	L	16
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Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. unit pcs.
CMF09M12	M12	8,5	20	22	8	7,0	20
CMF10M16	M16	10	22	24	9	8,5	20
CMF12M16	M16	12	24	26	9	10,5	20
CMF13M20	M20	13	26	28	10	11,5	20
CMF15M20	M20	15	28	30	10	13,8	20
CMF18M25	M25	18	32	34	10	16,5	10
CMF20M25	M25	20	35	38	12	18,5	10
CMF25M32	M32	25	40	42	12	23,0	10
CMF27M32	M32	27	42	45	12	25,0	10
CMF33M40	M40	33	50	53	12	31,0	5
CMF35M40	M40	35	50	53	12	33,0	5
CMF40M50	M50	40	58	61	13	37,5	5
CMF50M63	M63	50	70	74	20	48,0	2

Gewindeart Zoll

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. unit pcs.
CMF009	1/4"	8,5	20	22	9	7,0	20
CMF010	1/4"	10	22	24	9	8,5	20
CMF010A	3/8"	10	22	24	9	8,5	20
CMF010B	1/2"	10	22	24	10	8,5	20
CMF012	3/8"	12	24	26	9	10,5	20
CMF012A	1/2"	12	24	26	9	10,5	20
CMF013	3/8"	13	26	28	9,5	11,5	20
CMF013A	1/2"	13	26	28	9,5	11,5	20
CMF015	1/2"	15	28	30	9,5	13,8	20
CMF015A	3/4"	15	28	30	9,5	13,8	20
CMF018	1/2"	18	32	34	10	16,5	10
CMF018A	3/4"	18	32	34	10	16,5	10
CMF020	3/4"	20	35	38	12	18,5	10
CMF025	1"	25	40	42	12	23,0	10
CMF027	1"	27	42	45	14	25,0	10
CMF033	1 1/4"	33	50	53	16	31,0	5
CMF035	1 1/4"	35	50	53	16	33,0	5
CMF040	1 1/2"	40	58	61	17	37,5	5
CMF050	2"	50	70	74	21	48,0	2
CMF065	2 1/2"	65	95	95	22	61,0	1
CMF075	3"	75	104	104	22	71,0	1
CMF100	4"	100	129	129	28	95,0	1

CMPR



Ausführung construction	starrs Außengewinde, mit Zugentlastung rigid male thread, with strain relief	
Werkstoff material	Messing vernickelt nickel-plated brass	
Temperatur temperature	-40°C - +105°C	
Schutzart protection	IP 67	
Gemäß according to	IEC EN 61386	
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Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	für Kabel mm for cable mm	SW1 mm	SW2 mm	SW3 mm	GL mm	ID mm	VPE Stk. unit pcs.
CMPR1006M16	M16	10	4 - 6,5	19	22	24	8	8,5	1
CMPR1008M16	M16	10	5 - 8	19	22	24	8	8,5	1
CMPR1209M20	M20	12	5 - 8	22	24	26	8	10,5	1
CMPR1208M20	M20	12	6,5 - 9,5	22	24	26	8	10,5	1
CMPR1210M20	M20	12	7,0 - 10,5	22	24	26	8	10,5	1
CMPR1509M20	M20	15	6,5 - 9,5	22	28	30	8	13,8	1
CMPR1510M20	M20	15	7,0 - 10,5	22	28	30	8	13,8	1
CMPR1513M20	M20	15	9,0 - 13,0	22	28	30	8	13,8	1
CMPR1509M25	M25	15	6,5 - 9,5	28	28	30	9	13,8	1
CMPR1510M25	M25	15	7 - 10,5	28	28	30	9	13,8	1
CMPR1513M25	M25	15	9 - 13	28	28	30	9	13,8	1
CMPR2018M25	M25	20	14 - 18	30	35	38	9	18,5	1
CMPR2718M32	M32	27	14 - 18	35	42	45	10	25,0	1
CMPR2720M32	M32	27	17 - 20,5	35	42	45	10	25,0	1
CMPR2725M32	M32	27	20,5 - 25	40	42	45	10	25,0	1
CMPR3530M40	M40	35	26 - 30	45	50	53	10	33,0	1
CMPR4032M50	M50	40	27 - 32	52	58	61	12	37,5	1
CMPR4034M50	M50	40	29 - 34	52	58	61	12	37,5	1
CMPR4036M50	M50	40	32 - 36	52	58	61	12	37,5	1
CMPR5045M63	M63	50	39 - 44	64	70	74	10	48,0	1

Auf Anfrage
on requestWeitere Gewindearten (NPT / GAS)
further thread types (NPT / GAS) ✓Erweiterte Klemmbereiche
expanded clamping ranges ✓EMV-Adapter
EMC-adapter ✓Weitere Materialien (Edelstähle)
further materials (stainless steel) ✓Silikon Dichteinsätze
silicone inserts ✓Reduzierte Klemmbereiche
reduced clamping ranges ✓

CMPR



Ausführung construction	starrs Außengewinde, mit Zugentlastung rigid male thread, with strain relief	
Werkstoff material	Messing vernickelt nickel-plated brass	
Temperatur temperature	-40°C - +105°C	
Schutzart protection	IP 67	
Gemäß according to	IEC EN 61386	
Für Schlauchtyp: for conduit type:	L	16
	DAR	17
Seite / page:	DARX	18
	LPU	19
	DAPU	19
	T	10
	TP	11
	SVT	14
	SVPEVAT	15
	LHT	20



Gewindeart PG

Art. Nr. Art. no.	Gewinde Thread	Schlauch NW Conduit DN	für Kabel mm for cable mm	SW1 mm	SW2 mm	SW3 mm	GL mm	ID mm	VPE Stk. Unit pcs.
CMPRP10PG96	PG9	10	4 - 6,5	17	22	24	6,0	8,5	1
CMPRP10PG98	PG9	10	5 - 8	17	22	24	6,0	8,5	1
CMPRP10PG116	PG11	10	4 - 6,5	20	22	24	6,0	8,5	1
CMPRP10PG118	PG11	10	5 - 8	20	22	24	6,0	8,5	1
CMPRP12PG118	PG11	12	5 - 8	20	24	26	6,0	10,5	1
CMPRP12PG119	PG11	12	6,5 - 9,5	20	24	26	6,0	10,5	1
CMPRP12PG110	PG11	12	7 - 10,5	20	24	26	6,5	10,5	1
CMPRP12PG138	PG13,5	12	5 - 8	22	24	26	6,5	10,5	1
CMPRP12PG139	PG13,5	12	6,5 - 9,5	22	24	26	6,5	10,5	1
CMPR12PG130	PG13,5	12	7 - 10,5	22	24	26	6,5	10,5	1
CMPRP12PG168	PG16	12	5 - 8	24	24	26	6,5	10,5	1
CMPRP12PG169	PG16	12	6,5 - 9,5	24	24	26	6,5	10,5	1
CMPRP12PG1610	PG16	12	7 - 10	24	24	26	6,5	10,5	1
CMPRP15PG1309	PG13,5	15	6,5 - 9,5	22	28	30	6,5	13,8	1
CMPRP15PG1310	PG13,5	15	7 - 10,5	22	28	30	6,5	13,8	1
CMPRP15PG1313	PG13,5	15	9 - 13	22	28	30	6,5	13,8	1
CMPRP15PG169	PG16	15	6,5 - 9,5	24	28	30	6,5	13,8	1
CMPRP15PG1610	PG16	15	7 - 10,5	24	28	30	6,5	13,8	1
CMPRP15PG1613	PG16	15	9 - 13	24	28	30	6,5	13,8	1
CMPRP20PG2113	PG21	20	9 - 13	30	35	38	7,5	18,5	1
CMPRP20PG2115	PG21	20	11,5 - 15,5	30	35	38	7,5	18,5	1
CMPRP20PG2118	PG21	20	14 - 18	30	35	38	7,5	18,5	1
CMPRP27PG2918	PG29	27	14 - 18	40	42	45	9,0	25,0	1
CMPRP27PG2920	PG29	27	17 - 20,5	40	42	45	9,0	25,0	1
CMPRP27PG2925	PG29	27	20 - 25	40	42	45	9,0	25,0	1
CMPRP35PG3632	PG36	35	27 - 32	50	50	53	9,0	33,0	1
CMPRP40PG3632	PG36	40	27 - 32	50	58	61	9,0	37,5	1
CMPRP40PG3634	PG36	40	29 - 34	50	58	61	9,0	37,5	1
CMPRP40PG3636	PG36	40	32 - 36	50	58	61	9,0	37,5	1
CMPRP50PG4845	PG48	50	39 - 44	64	70	74	10,0	48,0	1

Auf Anfrage
on request

Weitere Gewindearten (NPT / GAS)
further thread types (NPT / GAS) ✓

Erweiterte Klemmbereiche
expanded clamping ranges ✓

EMV-Adapter
EMC-adapter ✓

Weitere Materialien (Edelstähle)
further materials (stainless steel) ✓

Silikon Dichteinsätze
silicone inserts ✓

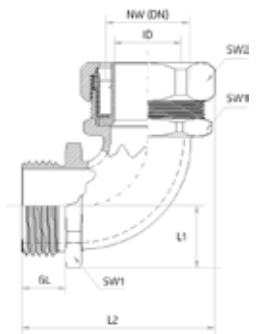
Reduzierte Klemmbereiche
reduced clamping ranges ✓

CMCC



Ausführung construction	Bogen 90° elbow 90°
Werkstoff material	Messing vernickelt nickel-plated brass
Temperatur temperature	-40°C - +105°C
Schutzart protection	IP 67
Gemäß according to	IEC EN 61386

Für Schlauchtyp for conduit type	L	16
	DAR	17
	DARX	18
	LPU	19
	DAPU	19
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Seite page	SVT	14
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	LHT	20



Verschraubungskörper / body
Tülle / bushing (verzinkt/galvanised)
Dichtring / sealing ring (Polyamid)
Überwurfmutter / locknut

Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	L1 mm	L2 mm	GL mm	ID mm	VPE Stk. unit pcs.
CMCC09M12	M12	8,5	22	22	12,0	44	11	7,0	20
CMCC09M16	M16	8,5	22	22	12,0	44	11	7,0	20
CMCC10M12	M12	10	22	24	12,0	44	11	8,5	20
CMCC10M16	M16	10	22	24	12,0	44	11	8,5	20
CMCC12M16	M16	12	26	26	14,0	45	12	10,5	10
CMCC12M20	M20	12	26	26	14,0	45	12	10,5	10
CMCC15M20	M20	15	28	30	15,0	50	12	13,8	10
CMCC20M25	M25	20	35	38	19,5	60	13	18,5	5
CMCC25M32	M32	25	42	42	23,5	70	16	23,5	2
CMCC27M32	M32	27	42	45	23,5	72	16	25,0	2

Gewindeart PG

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	L1 mm	L2 mm	GL mm	ID mm	VPE Stk. unit pcs.
CMCCP09PG09	PG09	8,5	22	22	12,0	44	11	7,0	20
CMCCP10PG09	PG09	10	22	24	12,0	44	11	8,5	20
CMCCP10PG11	PG11	10	22	24	12,0	44	11	8,5	20
CMCCP12PG11	PG11	12	26	26	14,0	45	12	10,5	10
CMCCP12PG13	PG13,5	12	26	26	14,0	45	12	10,5	10
CMCCP15PG13	PG13,5	15	28	30	15,0	50	12	13,8	10
CMCCP15PG16	PG16	15	28	30	15,0	50	12	13,8	10
CMCCP20PG21	PG21	20	35	38	19,5	60	13	18,5	5

Gewindeart Zoll

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	L1 mm	L2 mm	GL mm	ID mm	VPE Stk. unit pcs.
CMCCG09	1/4"	8,5	22	22	12,0	44	11	7,0	20
CMCCG09A	3/8"	8,5	22	22	12,0	44	11	7,0	20
CMCCG010	1/4"	10	22	24	12,0	44	11	8,5	20
CMCCG010A	3/8"	10	22	24	12,0	44	11	8,5	20
CMCCG012	3/8"	12	26	26	14,0	45	12	10,5	10
CMCCG012A	1/2"	12	26	26	14,0	45	12	10,5	10
CMCCG015	1/2"	15	28	30	15,0	50	12	13,8	10
CMCCG020	3/4"	20	35	38	19,5	60	13	18,5	5
CMCCG025	1"	25	42	42	23,5	70	16	23,0	2
CMCCG027	1"	27	42	45	23,5	72	16	25,0	2

CMCO

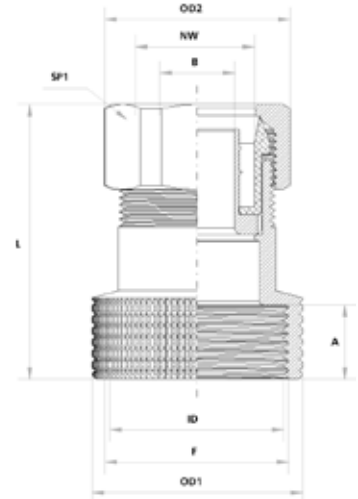


Ausführung construction	Innengewinde female thread	
Werkstoff material	Messing vernickelt nickel-plated brass	
Temperatur temperature	-40°C - +105°C	
Schutzart protection	IP 67	
Gemäß according to	IEC EN 61386	
Für Schlauchtyp for conduit type	L	16
	DAR	17
	DARX	18
	LPU	19
	DAPU	19
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	TP	11
Seite page	SVT	14
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Gewindeart UNEF

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SP1 mm	L mm	A mm	VPE Stk. unit pcs.
CMCO2110	5/8" - 24 f	10	24	33	10,5	20
CMCO2210	3/4" - 20 f	10	24	33	10,5	20
CMCO2212	3/4" - 20 f	12	26	33	10,5	20
CMCO2312	7/8" - 20 f	12	26	34	11	20
CMCO2315	7/8" - 20 f	15	30	35,7	11	20
CMCO2412	1" - 20 f	12	26	42	9	20
CMCO2415	1" - 20 f	15	30	41,7	10,5	20
CMCO2515	1"1/8 - 18 f	15	30	42,7	10,5	20
CMCO2520	1"1/8 - 18 f	20	38	44	10,5	10
CMCO2615	1"3/16 - 18 f	15	30	42,7	10,5	20
CMCO2620	1"3/16 - 18 f	20	38	45	10,5	10
CMCO2715	1"1/4 - 18 f	15	30	42,7	10,5	20
CMCO2720	1"1/4 - 18 f	20	38	45	10,5	10
CMCO2820	1"3/8 - 18 f	20	38	47	10,5	10
CMCO2827	1"3/8 - 18 f	27	45	48	11	10
CMCO2920	1"7/16 - 18 f	20	38	47	10,5	10
CMCO2927	1"7/16 - 18 f	27	45	48	11	10
CMCO3020	1"5/8 - 18 f	20	38	49	10	10
CMCO3027	1"5/8 - 18 f	27	45	50	10	10
CMCO3127	1"3/4 - 18 f	27	45	50	10	10
CMCO3135	1"3/4 - 18 f	35	53	51,5	11	1
CMCO3227	1"7/8 - 18 f	27	45	52	11	10
CMCO3235	1"7/8 - 18 f	35	53	53,5	11	1
CMCO3335	2" - 18 f	35	53	53,5	11	1
CMCO3340	2" - 18 f	40	61	54,5	11	1
CMCO3435	2"1/16 - 16 f	35	53	53,5	11	1
CMCO3440	2"1/16 - 16 f	40	61	54,5	11	1
CMCO3535	2"1/4 - 16 f	35	53	56,5	11	1
CMCO3540	2"1/4 - 16 f	40	61	52,5	11	1
CMCO3550	2"1/4 - 16 f	50	74	55	11	1
CMCO3635	2"5/16 - 16 f	35	53	56,5	14	1
CMCO3640	2"5/16 - 16 f	40	61	57,5	14	1
CMCO3650	2"5/16 - 16 f	50	74	60	14	1



BCM - CDVT



Ausführung construction	-
BCM	für alle Schlauchtypen for all conduit types
BCM-NZ	für NZ-NZX-DAN-NDX for NZ-NZX-DAN-NDX
CDVT	für CM-Serie for CM series
EESO	für alle Schluchtypen for all conduit types
EESO	für alle Schluchtypen for all conduit types
Werkstoff material	
BCM CDVT	Messing vernickelt nickel-plated brass
EESO	Stahl verzinkt tin-plated
VCM	Zinkdruckguss die-cast zinc

EMV-Ring BCM
EMC-ring BCMEMV-Überwurfmutter CDVT
EMC lock nut CDVTEndtülle EESO
bushing EESOEndtülle VCM
bushing VCM

BCM

Art. Nr. art. no.	Art. Nr. art. no.	Schlauch NW conduit DN	VPE Stk. unit pcs.
BCM10M	BCM10M-NZ	10	20
BCM12M	BCM12M-NZ	12	20
BCM15M	BCM15M-NZ	15	20
BCM20M	BCM20M-NZ	21	20
BCM27M	BCM27M-NZ	27	20
BCM35M	BCM35M-NZ	35	20
BCM40M	BCM40M-NZ	40	5
BCM50M	BCM50M-NZ	50	5

EESO

Art. Nr. art. no.	Schlauch NW conduit DN	VPE Stk. unit pcs.
EESO10	10	50
EESO12	12	50
EESO15	15	50
EESO21	21	50
EESO27	27	50
EESO35	35	25
EESO40	40	10
EESO50	50	5

CDVT

Art. Nr. art. no.	Schlauch NW conduit DN	SW mm across flats	VPE Stk. unit pcs.
CDVT10	10	24	20
CDVT12	12	26	20
CDVT15	15	30	20
CDVT20	20	38	10
CDVT25	25	42	10
CDVT27	27	45	10
CDVT33	33	53	5
CDVT35	35	53	5
CDVT40	40	61	5
CDVT50	50	74	5
CDVT65	65	95	1
CDVT75	75	104	1
CDVT100	100	129	1

VCM

Art. Nr. art. no.	Schlauch NW conduit DN	VPE Stk. unit pcs.
VCM09	8,5	1
VCM10	10	1
VCM12	12	1
VCM13	13	1
VCM15	15	1
VCM18	18	1
VCM20	20	1
VCM25	25	1
VCM27	27	1
VCM30	30	1
VCM33	33	1
VCM35	35	1
VCM40	40	1
VCM50	50	1
VCM65	65	1
VCM75	75	1
VCM100	100	1





TYP / TYPE	TM	TP	HCP	UCVC	RSP
Seite / page	Seite 42	Seite 43	Seite 44	Seite 44	Seite 45
PRODUKT-EIGENSCHAFTEN PRODUCT FEATURES	Standardprofil, MITTELSCHWERE AUSFÜHRUNG , flexibel, hohe Scheiteldruckfestigkeit, UV-beständig, gute Benzin,- Öl- und Säurebeständigkeit. Standard profile, MEDIUM HEAVY , flexible, high compressive strength, UV-resistant, good resistance to petrol, oil and acids.	Standardprofil, MITTELSCHWERE AUSFÜHRUNG , flexibel, hohe Scheiteldruckfestigkeit, UV-beständig, gute Benzin,- Öl- und Säurebeständigkeit. Standard profile, MEDIUM HEAVY , flexible, high compressive strength, UV-resistant, good resistance to petrol, oil and acids.	Standardprofil, SCHWERE AUSFÜHRUNG , flexibel, hohe Scheiteldruckfestigkeit, UV-beständig, gute Benzin,- Öl- und Säurebeständigkeit. Standard profile, HEAVY , high compressive strength, UV-resistant, good resistance to petrol, oil and acids.	Standardprofil, SCHWERE AUSFÜHRUNG , flexibel, hohe Scheiteldruckfestigkeit, UV-beständig, gute Benzin,- Öl- und Säurebeständigkeit. Standard profile, HEAVY , flexible, high compressive strength, UV-resistant, good resistance to petrol, oil and acids.	Standardprofil, MITTELSCHWERE AUSFÜHRUNG , flexibel, hohe Scheiteldruckfestigkeit, UV-beständig, gute Benzin,- Öl- und Säurebeständigkeit, HOHE BIEGEWECHSELFÄHIGKEIT . Standard profile, MEDIUM HEAVY , flexible, high compressive strength, UV-resistant, good resistance to petrol, oil and acids, FOR HIGH REVERSE BENDING STRESS .
MATERIAL	Polyamid 6 (PA6) polyamide 6 (PA6)	Polyamid 6 (PA6) polyamide 6 (PA6)	Polyamid 6 (PA6) polyamide 6 (PA6)	Polyamid 6 (PA6) polyamide 6 (PA6)	Polyamid 12 (PA12) polyamide 12 (PA12)
GRÖSSEN - NW SIZES - DN	4,5 - 95	7 - 50	7 - 95	17 - 50	7 - 95
TEMPERATUR TEMPERATURE	-40°C - +120°C kurzz./short term +150°C	-40°C - +120°C kurzz./short term +150°C	-40°C - +120°C kurzz./short term +150°C	-40°C - +120°C kurzz./short term +150°C	-50°C - +95°C kurzz./short term +150°C
BRENNBARKEIT FLAMMABILITY	UL94 HB	UL94 V0	UL94 V0	UL94 V0	UL94 V2
SCHUTZART PROTECTION	IP 68	IP 68	IP 68	IP 68	IP 68
GEMÄSS ACCORDING TO	IEC EN 61386	IEC EN 61386	IEC EN 61386	IEC EN 61386	IEC EN 61386
ZULASSUNGEN & ATTRIBUTE					
CERTIFICATION & PROPERTIES					

PASSENDEN VERSCHRAUBUNGEN UND ZUBEHÖR SUITABLE FITTINGS AND ACCESSORIES	Seite/page 60 SM gerade straight	Seite/page 64 MSM Metallgewinde metal thread	Seite/page 74 MSR Zugentlastung strain relief	Seite/page 76 CSF Sensoradapter	Seite/page 77 SFA/SFB UNEF Inneng. UNEF female
	Seite/page 62 S-SM Slim gerade Slim straight	Seite/page 72 SR Zugentlastung strain relief	Seite/page 65 SF Innengewinde female thread	Seite/page 76 SFMIL UNEF Inneng. UNEF female	Seite/page 67 BN 90°



ESD

Seite 46

Standardprofil, MITTELSCHWERE AUSFÜHRUNG, flexibel, hohe Scheiteldruckfestigkeit, UV-beständig, gute Benzin-, Öl- und Säurebeständigkeit, **ANTISTATISCH**.

Standard profile, MEDIUM HEAVY, flexible, high compressive strength, UV-resistant, good resistance to petrol, oil and acids, **ANTISTATIC**.

Polyamid 12 (PA12)
polyamide 12 (PA12)

7 - 95

-40°C - +110°C
kurzz./short term +150°C

UL94 HB

IP 68

IEC EN 61386



TGM

Seite 47

Standardprofil, MITTELSCHWERE AUSFÜHRUNG, flexibel, hohe Scheiteldruckfestigkeit, UV-beständig, gute Benzin-, Öl- und Säurebeständigkeit.

Standard profile, MEDIUM HEAVY, flexible, high compressive strength, UV-resistant, good resistance to petrol, oil and acids.

Polypropylen (PP mod.)
polypropylene (PP mod.)

7,5 - 95

-40°C - +135°C
kurzz./short term +150°C

UL94 V2

IP 68

IEC EN 61386



PE

Seite 48

Standardprofil, MITTELSCHWERE AUSFÜHRUNG, flexibel, geringe Scheiteldruckfestigkeit, UV-beständig, gute Benzin-, Öl- und Säurebeständigkeit.

Standard profile, MEDIUM HEAVY, flexible, low compressive strength, UV-resistant, good resistance to petrol, oil and acids.

Polyethylen (PE)
polyethylene (PE)

7,5 - 95

-40°C - +70°C
kurzz./short term +90°C

UL94 HB

IP 68

IEC EN 61386



PFA

Seite 49

Standardprofil, MITTELSCHWERE AUSFÜHRUNG, flexibel, hohe Scheiteldruckfestigkeit, UV-beständig, gute Benzin-, Öl- und Säurebeständigkeit, **HOHE TEMPERATURBESTÄNDIGKEIT**.

Standard profile, MEDIUM HEAVY, flexible, high compressive strength, UV-resistant, good resistance to petrol, oil and acids, **RESISTANT TO HIGH TEMPERATURES**.

PFA

3 - 29

-200°C - +260°C
kurzz./short term +285°C

UL94 V0

IP 68

IEC EN 61386



TPE

Seite 50

Standardprofil, MITTELSCHWERE AUSFÜHRUNG, flexibel, geringe Scheiteldruckfestigkeit, UV-beständig, gute Benzin-, Öl- und Säurebeständigkeit.

Standard profile, MEDIUM HEAVY, flexible, low compressive strength, UV-resistant, good resistance to petrol, oil and acids.

TPE

7,5 - 95

-30°C - +150°C
kurzz./short term +180°C

UL94 HB

IP 68

IEC EN 61386



ECOT

Seite 51

Standardprofil mit VERZINKTEM ODER EDELSTAHLGEFLECHT, flexibel, hohe Scheiteldruckfestigkeit, UV-beständig, gute Benzin-, Öl- und Säurebeständigkeit.

Standard profile, with GALVANISED STEEL OR STAINLESS STEEL BRAID, flexible, high compressive strength, UV-resistant, good resistance to petrol, oil and acids.

Polyamid/Stahl verzinkt
polyamide/galvanised steel

7 - 70

-40°C - +120°C
kurzz./short term +150°C

UL94 HB

IP 68

IEC EN 61386



Seite/page 68



MBN
90° Metallgew.
90° metal thr.

Seite/page 70



MBF
45° Metallgew.
45° metal thr.

Seite/page 79



JS
Flansch gerade
straight flange

Seite/page 79



JE
90° Flansch
90° flange

Seite/page 78



SMEMC
EMV
EMC

Seite/page 81



Y
Verbinder
connector

Seite/page 69



BF
45°

Seite/page 71



FF
45° Fansch
45° flange

Seite/page 71



FL
90° Fansch
90° flange

Seite/page 79



JER
90° Flansch
90° flange

Seite/page 81



T
Verbinder
connector

Seite/page 82



CS
Verbinder
connector



TYP / TYPE	FDA	PADC	PADC-L	PPDC	PPDC-L
Seite / page	Seite 52	Seite 53	Seite 53	Seite 54	Seite 54
PRODUKT-EIGENSCHAFTEN PRODUCT FEATURES	Standardprofil, AUSSEN GLATT , mittelschwere Ausführung, flexibel, hohe Scheiteldruckfestigkeit, UV-beständig, gute Beständigkeit gegen Reinigungsmittel, HYGIENE-BEREICHE .	TEILBAR / WIEDERVERSCHLIESSBAR, Standardprofil , mittelschwere Ausführung, flexibel, hohe Scheiteldruckfestigkeit, UV-beständig, gute Benzin-, Öl- und Säurebeständigkeit.	TEILBAR / WIEDERVERSCHLIESSBAR, Standardprofil , mittelschwere Ausführung, flexibel, hohe Scheiteldruckfestigkeit, UV-beständig, gute Benzin-, Öl- und Säurebeständigkeit.	TEILBAR / WIEDERVERSCHLIESSBAR, Standardprofil , mittelschwere Ausführung, flexibel, hohe Scheiteldruckfestigkeit, UV-beständig, gute Benzin-, Öl- und Säurebeständigkeit.	TEILBAR / WIEDERVERSCHLIESSBAR, Standardprofil , mittelschwere Ausführung, flexibel, hohe Scheiteldruckfestigkeit, UV-beständig, gute Benzin-, Öl- und Säurebeständigkeit.
MATERIAL	Polyamid/Elastomer polyamide/elastomer	Polyamid 6 (PA6) polyamide 6 (PA6)	Polyamid 6 (PA6) polyamide 6 (PA6)	Polypropylen (PP mod.) polypropylene (PP mod.)	Polypropylen (PP mod.) polypropylene (PP mod.)
GRÖSSEN - NW SIZES - DN	12 - 50	6 - 70	6 - 48	6 - 70	6 - 48
TEMPERATUR TEMPERATURE	0°C - +100°C kurzz./short term +150°C	-40°C - +120°C kurzz./short term +150°C	-40°C - +120°C kurzz./short term +150°C	-40°C - +135°C kurzz./short term +150°C	-40°C - +135°C kurzz./short term +150°C
BRENNBARKEIT FLAMMABILITY	UL94 HB	UL94 V0	UL94 HB	UL94 V0	UL94 V2
SCHUTZART PROTECTION	IP 68	IP 54	IP 54	IP 54	IP 54
GEMÄSS ACCORDING TO	IEC EN 61386	IEC EN 61386	IEC EN 61386	IEC EN 61386	IEC EN 61386
ZULASSUNGEN & ATTRIBUTE	HF	HF	HF	HF	HF
CERTIFICATION & PROPERTIES					

PASSENDEN VERSCHRAUBUNGEN UND ZUBEHÖR SUITABLE FITTINGS AND ACCESSORIES	Seite/page 60 SM gerade straight	Seite/page 64 MSM Metallgewinde metal thread	Seite/page 74 MSR Zugentlastung strain relief	Seite/page 76 CSF Sensoradapter	Seite/page 77 SFA/SFB UNEF Inneng. UNEF female
	Seite/page 62 S-SM Slim gerade Slim straight	Seite/page 72 SR Zugentlastung strain relief	Seite/page 65 SF Innengewinde female thread	Seite/page 76 SFMIL UNEF Inneng. UNEF female	Seite/page 67 BN 90°



TM



Ausführung construction	Standardprofil, mittelschwer standard profile, medium heavy	
Werkstoff material	Polyamid 6 (PA6) UL94 HB polyamide 6 (PA6) UL 94 HB	
Temperatur temperature	-40°C - +120°C kurzz. / short term +150°C	
Schutzart protection	IP68	
gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings Seite page	JAW-FIT-System	ab Seite 60

Wellrohr PA6, schwarz oder grau
corrugated conduit PA6, black or grey



Eigenschaften properties

flexibel - hohe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - halogenfrei
benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei - internationale Zulassung
flexible - high compressive strength - liquid tight - self extinguishing - UV-resistant - free of halogene - flame retardant
petrol resistant - oil resistant - acid resistant - free of silicone and cadmium - international approval

Anwendungen application

Maschinenbau
machine-building ✓
Automation
automation ✓

Elektroinstallation
electro-installation ✓
Bahn
railway

Fahrzeugbau
automotive ✓
Schiffsbau
shipbuilding ✓

EMV-Anwendungen
EMC-application
EX-Anwendungen
EX-application

Art. Nr. schwarz art. no. black	Art. Nr. grau art. no. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm	VPE unit
TM004B	TM004G	4,5	4,3	7,3	8	100m
TM007B	TM007G	7	6,7	10,0	13	50m
TM008B	TM008G	8,5	8,4	11,7	15	50m
TM010B	TM010G	10	9,9	13,0	20	50m
TM012B	TM012G	12	12,2	15,7	30	50m
TM013B	TM013G	13	12,7	15,8	35	50m
TM014B	TM014G	14	14,2	18,5	40	50m
TM016B	TM016G	16	14,9	18,9	40	50m
TM017B	TM017G	17	16,6	21,2	45	50m
TM019B	TM019G	19	19,3	24,3	45	50m
TM022B	TM022G	22	21,2	25,5	50	50m
TM023B	TM023G	23	23,2	28,3	55	50m
TM026B	TM026G	26	25,7	32,2	60	50m
TM029B	TM029G	29	29,0	34,5	65	25m
TM036B	TM036G	36	36,0	42,4	90	25m
TM048B	TM048G	50	48,1	53,8	100	25m
TM056B	TM056G	56	56,3	67,2	130	30m
TM065B	TM065G	65	62,7	73,5	145	25m
TM070B	TM070G	70	67,5	80,0	160	10m
TM095B	TM095G	95	91,5	106,0	210	10m

TP



Ausführung construction	Standardprofil, mittelschwer standard profile, medium heavy	
Werkstoff material	Polyamid 6 (PA6) UL94 V0 polyamide 6 (PA6) UL94 V0	
Temperatur temperature	-40°C - +120°C kurzz. / short term +150°C	
Schutzart protection	IP68	
gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings Seite page	JAW-FIT-System	ab Seite 60

Wellrohr PA6, schwarz oder grau
corrugated conduit PA6, black or grey



Eigenschaften
properties

flexibel - hohe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - halogenfrei - flammwidrig
benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei - internationale Zulassung
flexible - high compressive strength - liquid tight - self extinguishing - UV-resistant - free of halogene - flame retardant
petrol resistant - oil resistant - acid resistant - free of silicone and cadmium - international approval

Anwendungen
application

Maschinenbau
machine-building ✓
Automation
automation ✓

Elektroinstallation
electro-installation ✓
Bahn
railway ✓

Fahrzeugbau
automotive ✓
Schiffsbau
shipbuilding ✓

EMV-Anwendungen
EMC-application
EX-Anwendungen
EX-application

Art. Nr. schwarz art. no. black	Art. Nr. grau art. no. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm	VPE unit
TP007B	TP007G	7	6,7	10,0	13	50m
TP008B	TP008G	8,5	8,4	11,7	15	50m
TP010B	TP010G	10	9,9	13,0	20	50m
TP012B	TP012G	12	12,2	15,7	30	50m
TP013B	TP013G	13	12,7	15,8	35	50m
TP014B	TP014G	14	14,2	18,5	40	50m
TP016B	TP016G	16	14,9	18,9	40	50m
TP017B	TP017G	17	16,6	21,2	45	50m
TP022B	TP022G	22	21,2	25,5	50	50m
TP023B	TP023G	23	23,2	28,3	55	50m
TP026B	TP026G	26	25,7	32,2	60	50m
TP029B	TP029G	29	29,0	34,5	65	25m
TP036B	TP036G	36	36,0	42,4	90	25m
TP048B	TP048G	50	48,1	53,8	100	25m

HCP - UCVC



Ausführung construction	Standardprofil, schwer standard profile, heavy	
Werkstoff material	Polyamid 6 (PA6) UL94 V0 polyamide 6 (PA6) UL94 V0	
Temperatur temperature	-40°C - +120°C kurzz. / short term +150°C	
Schutzart protection	IP68	
gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	JAW-FIT-System	ab Seite 60
Seite	page	

Wellrohr PA6, schwarz oder grau
corrugated conduit PA6, black or grey

Eigenschaften
properties

flexibel - hohe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - halogenfrei - flammwidrig
benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei
flexible - high compressive strength - liquid tight - self extinguishing - UV-resistant - free of halogene - flame retardant
petrol resistant - oil resistant - acid resistant - free of silicone and cadmium

Anwendungen
application

Maschinenbau
machine-building ✓
Automation
automation ✓

Elektroinstallation
electro-installation ✓
Bahn
railway ✓

Fahrzeugbau
automotive ✓
Schiffsbau
shipbuilding ✓

EMV-Anwendungen
EMC-application
EX-Anwendungen
EX-application

Art. Nr. schwarz art. no. black	Art. Nr. grau art. no. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm	VPE unit
HCPF07B	HCPF07G	7	5,8	10,0	20	50m
HCPF10B	HCPF10G	10	9,0	13,0	25	50m
HCPF12B	HCPF12G	12	11,6	15,8	30	50m
HCPF17B	HCPF17G	17	16,5	21,2	40	50m
HCPC17B	HCPC17G	17	14,5	21,2	45	50m
HCPC23B	HCPC23G	23	21,1	28,5	50	50m
HCPC29B	HCPC29G	29	26,6	42,5	60	50m
HCPC36B	HCPC36G	36	35,0	42,5	70	30m
HCPC48B	HCPC48G	50	46,5	54,5	80	30m
HCPC56B	HCPC56G	56	55,5	67,2	130	30m
HCPC70B	HCPC70G	70	67,0	80,0	170	10m
HCPC95B	HCPC95G	95	90,5	106,0	250	10m

Art. Nr. schwarz art. no. black	Art. Nr. grau art. no. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm	VPE unit
UCVC17B	UCVC17G	17	15,3	21,2	40	50m
UCVC23B	UCVC23G	23	21,9	28,5	45	50m
UCVC29B	UCVC29G	29	27,6	34,5	55	50m
UCVC36B	UCVC36G	36	36,0	42,5	60	30m
UCVC48B	UCVC48G	50	47,0	54,5	70	30m

RSP



Ausführung construction	Standardprofil, mittelschwer standard profile, medium heavy	
Werkstoff material	Polyamid 12 (PA12) UL94 V2 polyamide 12 (PA12) UL94 V2	
Temperatur temperature	-50°C - +95°C kurzz. / short term +150°C	
Schutzart protection	IP68	
gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings Seite page	JAW-FIT-System	ab Seite 60

Wellrohr PA12, schwarz oder grau
corrugated conduit PA12, black or grey



Eigenschaften
properties

flexibel - hohe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - halogenfrei - flammwidrig
benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei - hohe Wechselbiegefestigkeit
flexible - high compressive strength - liquid tight - self extinguishing - UV-resistant - free of halogens - flame retardant
petrol resistant - oil resistant - acid resistant - free of silicone and cadmium - high fatigue strength

Anwendungen
application

- Maschinenbau
machine-building ✓
- Elektroinstallation
electro-installation ✓
- Fahrzeugbau
automotive ✓
- EMV-Anwendungen
EMC-application
- Automation
automation ✓
- Bahn
railway ✓
- Schiffsbau
shipbuilding ✓
- EX-Anwendungen
EX-application

Art. Nr. schwarz art. no. black	Art. Nr. grau art. no. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm	VPE unit
RSPF07B	RSPF07G	7	6,2	10,0	15	50m
RSPF10B	RSPF10G	10	9,6	13,0	20	50m
RSPF12B	RSPF12G	12	11,9	15,8	25	50m
RSPF17B	RSPF17G	17	16,4	21,2	30	50m
RSPF23B	RSPF23G	23	22,6	28,5	35	50m
RSPF29B	RSPF29G	29	29,0	34,5	45	50m
RSPF36B	RSPF36G	36	35,8	42,5	60	30m
RSPF48B	RSPF48G	50	47,5	54,5	70	30m
RSPC17B	RSPC17G	17	15,2	21,2	30	50m
RSPC23B	RSPC23G	23	21,7	28,5	40	50m
RSPC29B	RSPC29G	29	27,4	34,5	50	50m
RSPC36B	RSPC36G	36	35,8	42,5	60	30m
RSPC48B	RSPC48G	50	46,7	54,5	70	30m
RSPC56B	RSPC56G	56	56,0	67,2	110	30m
RSPC70B	RSPC70G	70	67,2	80,0	150	10m
RSPC95B	RSPC95G	95	91,3	106,0	170	10m

ESD



Ausführung construction	Standardprofil, mittelschwer standard profile, medium heavy	
Werkstoff material	Polyamid 12 (PA12) ESD UL94 HB polyamide 12 (PA12) ESD UL94 HB	
Temperatur temperature	-40°C - +110°C kurzz. / short term +150°C	
Schutzart protection	IP68	
gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings Seite page	JAW-FIT-System	ab Seite 60

Wellrohr PA12, ESD, schwarz
corrugated conduit PA12, ESD, blackEigenschaften
properties

**flexibel - geringe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - halogenfrei
benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei - antistatisch**
flexible - low compressive strength - liquid tight - self extinguishing - UV-resistant - free of halogene - flame retardant
petrol resistant - oil resistant - acid resistant - free of silicone and cadmium - antistatic

Anwendungen
application

Maschinenbau ✓
machine-building ✓
Automation ✓
automation ✓

Elektroinstallation ✓
electro-installation ✓
Bahn ✓
railway ✓

Fahrzeugbau ✓
automotive ✓
Schiffsbau ✓
shipbuilding ✓

EMV-Anwendungen ✓
EMC-application ✓
EX-Anwendungen ✓
EX-application ✓

Art. Nr. schwarz art. no. black	Art. Nr. grau art. no. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm	VPE unit
ESDF07B	a. A.	07	7,0	10,0	15	50m
ESDF08B	a.A.	08	8,2	11,4	16	50m
ESDF10B	a.A.	10	9,8	12,7	20	50m
ESDF12B	a.A.	12	12,1	15,8	25	50m
ESDC16B	a.A.	16	15,7	21,0	29	50m
ESDF17B	a.A.	17	17,0	20,9	30	50m
ESDC21B	a.A.	21	21,7	28,2	34	50m
ESDF23B	a.A.	23	23,5	28,0	35	50m
ESDC29B	a.A.	29	27,4	34,2	45	25m
ESDF29B	a.A.	29	29,4	34,2	45	25m
ESDC36B	a.A.	36	35,3	42,3	60	25m
ESDF37B	a.A.	37	36,2	42,0	60	25m
ESDF48B	a.A.	48	46,3	53,9	70	25m
ESDF50B	a.A.	50	47,0	53,4	70	25m
ESDF70B	a.A.	70	66,0	78,8	150	25m
ESDF95B	a.A.	95	89,6	105,2	170	10m

TGM



Ausführung construction	Standardprofil, mittelschwer standard profile, medium heavy	
Werkstoff material	Polypropylen (PP mod.) UL94 V2 polypropylene (PP mod.) UL94 V2	
Temperatur temperature	-40°C - +135°C kurzz. / short term +150°C	
Schutzart protection	IP68	
gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	JAW-FIT-System	ab Seite 60
Seite page		

Wellrohr PP mod., schwarz
corrugated conduit PP mod, black



Eigenschaften
properties

flexibel - hohe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - halogenfrei - flammwidrig
gute Säurebeständigkeit - silikon- und cadmiumfrei
flexible - high compressive strength - liquid tight - self extinguishing - UV-resistant - free of halogene - flame retardant
acid resistant - free of silicone and cadmium

Anwendungen
application

Maschinenbau ✓
machine-building ✓
Automation ✓
automation ✓

Elektroinstallation ✓
electro-installation ✓
Bahn
railway

Fahrzeugbau ✓
automotive ✓
Schiffsbau ✓
shipbuilding ✓

EMV-Anwendungen
EMC-application
EX-Anwendungen
EX-application

Art. Nr. schwarz art. no. black	Art. Nr. grau art. no. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm	VPE unit
TGM007B	a. A.	7,5	6,9	9,9	13	50m
TGM008B	a.A.	8,5	8,5	11,4	15	50m
TGM010B	a.A.	10	10,1	12,6	20	50m
TGM012B	a.A.	12	12,0	15,3	30	50m
TGM013B	a.A.	13	12,7	15,8	35	50m
TGM014B	a.A.	14	14,5	18,4	40	50m
TGM016B	a.A.	16	15,2	18,7	40	50m
TGM017B	a.A.	17	16,8	21,0	45	50m
TGM022B	a.A.	22	21,8	25,5	50	50m
TGM023B	a.A.	23	23,7	28,0	55	50m
TGM026B	a.A.	26	25,7	32,2	60	25m
TGM029B	a.A.	29	29,3	33,9	65	25m
TGM036B	a.A.	36	33,8	41,6	90	25m
TGM048B	a.A.	50	45,7	53,2	100	25m
TGM056B	a.A.	56	56,3	67,2	130	25m
TGM065B	a.A.	65	62,7	73,5	145	25m
TGM070B	a.A.	70	66,5	79,2	160	25m
TGM095B	a.A.	95	91,0	106,0	210	10m

PE



Ausführung construction	Standardprofil, mittelschwer standard profile, medium heavy	
Werkstoff material	Polyethylen (PE) UL94 HB polyethylene (PE) UL94 HB	
Temperatur temperature	-40°C - +70°C kurzz. / short term +90°C	
Schutzart protection	IP68	
Eigenschaft property	weich soft	
Passende Verschraubungen suitable fittings Seite page	JAW-FIT-System	ab Seite 60

Wellrohr PE, schwarz oder grau
corrugated conduit PE, black or greyEigenschaften
properties

**flexibel - geringe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - halogenfrei
silikon- und cadmiumfrei - gute Ölbeständigkeit - gute Säurebeständigkeit**
flexible - low compressive strength - liquid tight - self extinguishing - UV-resistant - free of halogene
free of silicone and cadmium - oil resistant - acid resistant

Anwendungen
application

Maschinenbau
machine-building ✓

Elektroinstallation
electro-installation ✓

Fahrzeugbau
automotive ✓

EMV-Anwendungen
EMC-application

Automation
automation ✓

Bahn
railway

Schiffsbau
shipbuilding ✓

EX-Anwendungen
EX-application

Art. Nr. schwarz art. no. black	Art. Nr. grau art. no. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm	VPE unit
PE007B	PE007G	7,5	6,5	9,9	a. A.	50m
PE008B	PE008G	8,5	8,4	11,8	a.A.	50m
PE010B	PE010G	10	9,8	12,7	a.A.	50m
PE012B	PE012G	12	11,6	15,6	a.A.	50m
PE014B	PE014G	14	14,1	18,3	a.A.	50m
PE016B	PE016G	16	14,7	18,6	a.A.	50m
PE017B	PE017G	17	16,3	20,8	a.A.	50m
PE022B	PE022G	22	21,2	25,4	a.A.	50m
PE023B	PE023G	23	22,9	27,9	a.A.	50m
PE029B	PE029G	29	28,9	34,0	a.A.	25m
PE036B	PE036G	36	33,5	41,5	a.A.	25m
PE048B	PE048G	50	45,3	53,3	a.A.	25m
PE065B	PE065G	65	62,2	72,9	a.A.	10m
PE070B	PE070G	70	66,5	79,2	a.A.	10m
PE095B	PE095G	95	91,0	106,0	a.A.	10m

PFA



Ausführung construction	Standardprofil, mittelschwer standard profile, medium heavy	
Werkstoff material	PFA UL94 V0	
Temperatur temperature	-200°C - +260°C kurzz. / short term +285°C	
Schutzart protection	IP68	
Eigenschaft property	weich soft	
Passende Verschraubungen suitable fittings	JAW-FIT-System	ab Seite 60
Seite page		

Wellrohr PFA, schwarz oder grau
corrugated conduit PFA, black or grey



Eigenschaften
properties

flexibel - hohe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - halogenfrei - flammwidrig
hohe Temperaturbeständigkeit - gute Ölbeständigkeit - gute Säurebeständigkeit
 flexible - high compressive strength - liquid tight - self extinguishing - UV-resistant - free of halogene - flame retardant
 high temperature - oil resistant - acid resistant

Anwendungen
application

- Maschinenbau**
machine-building ✓
- Elektroinstallation**
electro-installation ✓
- Fahrzeugbau**
automotive ✓
- EMV-Anwendungen**
EMC-application
- Automation**
automation ✓
- Bahn**
railway ✓
- Schiffsbau**
shipbuilding ✓
- EX-Anwendungen**
EX-application

Art. Nr. schwarz art. no. black	Art. Nr. grau art. no. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm	VPE unit
PFA003B	PFA003	3	3,0	5,1	a. A.	100m
PFA004B	PFA004	4,5	4,3	6,8	a.A.	100m
PFA007B	PFA007	7,5	7,0	9,8	a.A.	100m
PFA008B	PFA008	8,5	7,6	10,0	a.A.	50m
PFA010B	PFA010	10	9,8	13,0	a.A.	50m
PFA013B	PFA013	13	12,4	16,0	a.A.	50m
PFA016B	PFA016	16	15,6	19,8	a.A.	50m
PFA017B	PFA017	17	16,6	21,1	a.A.	50m
PFA021B	PFA021	21	20,1	25,0	a.A.	50m
PFA023B	PFA023	23	23,8	28,8	a.A.	25m
PFA029B	PFA029	29	28,8	32,3	a.A.	25m

TPE



HF

Ausführung construction	Standardprofil, mittelschwer standard profile, medium heavy	
Werkstoff material	TPE UL94 HB	
Temperatur temperature	-30°C - +150°C kurzz. / short term +180°C	
Schutzart protection	IP68	
Eigenschaft property	weich soft	
Passende Verschraubungen suitable fittings Seite page	JAW-FIT-System	ab Seite 60

Wellrohr TPE, schwarz
corrugated conduit TPE, blackEigenschaften
properties

flexibel - geringe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - halogenfrei - flammwidrig
hohe Temperaturbeständigkeit - gute Ölbeständigkeit - gute Säurebeständigkeit
flexible - low compressive strength - liquid tight - self extinguishing - UV-resistant - free of halogene - flame retardant
high temperature - oil resistant - acid resistant

Anwendungen
application

Maschinenbau
machine-building ✓
Automation
automation ✓

Elektroinstallation
electro-installation ✓
Bahn
railway

Fahrzeugbau
automotive ✓
Schiffsbau
shipbuilding ✓

EMV-Anwendungen
EMC-application
EX-Anwendungen
EX-application

Art. Nr. schwarz art. no. black	Art. Nr. grau art. no. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm	VPE unit
TPE007B	a.A.	7,5	6,5	10,0	-	50m
TPE008B	a.A.	8,5	8,2	11,5	-	50m
TPE010B	a.A.	10	9,9	12,8	-	50m
TPE012B	a.A.	12	11,5	15,6	-	50m
TPE014B	a.A.	14	14,1	18,5	-	50m
TPE016B	a.A.	16	14,8	18,9	-	50m
TPE017B	a.A.	17	16,4	21,0	-	50m
TPE022B	a.A.	22	21,2	25,7	-	50m
TPE023B	a.A.	23	23,4	28,1	-	50m
TPE029B	a.A.	29	28,9	33,8	-	25m
TPE036B	a.A.	36	34,1	41,6	-	25m
TPE048B	a.A.	50	45,8	53,1	-	25m
TPE070B	a.A.	70	66,5	79,2	-	25m
TPE095B	a.A.	95	91,0	106,0	-	10m

ECOT



Ausführung construction	Standardprofil, Geflecht standard profile, steel braid	
Werkstoff material	PA6 Wellrohr Stahlgeflecht (verzinkt/VA) PA6 conduit steel braid (galv. / INOX)	
Temperatur temperature	-40°C - +120°C kurzz. / short term +150°C	
Schutzart protection	IP68	
gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	JAW-FIT-System	ab Seite 60
Seite page		

Wellrohr PA6 mit verzinktem- oder Edelstahl- Geflecht.
corrugated conduit PA6 with galvanised or stainless steel braid



Eigenschaften
properties

**flexibel - hohe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - halogenfrei - flammwidrig
benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei**
flexible - high compressive strength - liquid tight - self extinguishing - UV-resistant - free of halogene - flame retardant
petrol resistant - oil resistant - acid resistant - free of silicone and cadmium

Anwendungen
application

- | | | | |
|------------------------------------|---|------------------------------|--------------------------------------|
| Maschinenbau
machine-building ✓ | Elektroinstallation
electro-installation ✓ | Fahrzeugbau
automotive ✓ | EMV-Anwendungen
EMC-application ✓ |
| Automation
automation ✓ | Bahn
railway ✓ | Schiffsbau
shipbuilding ✓ | EX-Anwendungen
EX-application ✓ |

Art. Nr. verzinkt art. no. galvanised	Art. Nr. Edelstahl art. no. stainless	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm	VPE unit
ECOT07B	ECOT07BX	7	6,2	11,0	15	50m
ECOT10B	ECOT10BX	10	9,6	14,0	20	50m
ECOT12B	ECOT12BX	12	12,0	17,0	30	50m
ECOT17B	ECOT17BX	17	16,2	22,5	40	50m
ECOT23B	ECOT23BX	23	22,6	30,0	45	50m
ECOT29B	ECOT29BX	29	29,0	36,0	55	50m
ECOT36B	ECOT36BX	36	36,5	44,0	60	30m
ECOT48B	ECOT48BX	50	48,5	56,0	70	30m
ECOT70B	ECOT70BX	70	67,5	82,0	160	10m

FDA



Ausführung construction	Glatt, mittelschwer smooth profile, medium heavy	
Werkstoff material	PA6 Elastomer Überzug PA6 elastomer cover	
Temperatur temperature	-0°C - +100°C kurzz. / short term +150°C	
Schutzart protection	IP68	
gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	JAW-FIT-System	ab Seite 60
Seite page		

Wellrohr PA6 mit Elastomer-Überzug
corrugated tube PA6, with elastomer cover



Eigenschaften
properties

**flexibel - hohe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - halogenfrei - flammwidrig
benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit**
flexible - high compressive strength - liquid tight - self extinguishing - UV-resistant - free of halogene - flame retardant
petrol resistant - oil resistant - acid resistant

Anwendungen
application

- Maschinenbau
machine-building ✓
- Elektroinstallation
electro-installation ✓
- Fahrzeugbau
automotive ✓
- EMV-Anwendungen
EMC-application
- Automation
automation ✓
- Bahn
railway
- Schiffsbau
shipbuilding ✓
- EX-Anwendungen
EX-application

Art. Nr. grau art. no. grau	Art. Nr. schwarz art. no. schwarz	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm	VPE unit
FDAF12	-	12	11,8	18,8	30	50m
FDAF17	-	17	16,0	24,2	40	50m
FDAF23	-	23	22,4	31,5	45	50m
FDAF29	-	29	28,8	37,5	55	50m
FDAF36	-	36	36,5	44,0	60	30m
FDAF48	-	50	48,5	57,5	70	30m

PADC



Ausführung construction	Standardprofil, mittelschwer, teilbar standard profile, medium heavy, separable	
Werkstoff material	PA6 UL94 V0 (PADC) PA6 UL94 HB (PADC-L)	
Temperatur temperature	-40°C - +120°C kurzz. / short term +150°C	
Schutzart protection	IP54	
gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	JAW-FIT-System	ab Seite 60
Seite page	LCO-System	

Wellrohr PA6, schwarz, teilbar
corrugated tube PA6, black, separable



Eigenschaften
properties

flexibel - hohe Scheiteldruckfestigkeit - selbstverlöschend - UV-beständig - halogenfrei - flammwidrig
benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei
flexible - high compressive strength - self extinguishing - UV-resistant - free of halogene - flame retardant
petrol resistant - oil resistant - acid resistant - free of silicone and cadmium

Anwendungen
application

- Maschinenbau
machine-building ✓
- Elektroinstallation
electro-installation ✓
- Fahrzeugbau
automotive ✓
- EMV-Anwendungen
EMC-application
- Automation
automation ✓
- Bahn
railway ✓
- Schiffsbau
shipbuilding ✓
- EX-Anwendungen
EX-application

Art. Nr. schwarz art. no. black	Art. Nr. grau art. no. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm	VPE unit
PADC06	a.A.	6	6,3	10,0	15	50m
PADC10	a.A.	10	8,9	13,6	15	50m
PADC11	a.A.	11	11,0	16,1	15	50m
PADC14	a.A.	14	12,9	18,7	20	50m
PADC16	a.A.	16	16,0	21,5	20	50m
PADC20	a.A.	20	19,8	25,9	25	50m
PADC23	a.A.	23	23,7	31,3	35	50m
PADC29	a.A.	29	27,3	35,5	35	25m
PADC37	a.A.	37	31,7	41,9	40	25m
PADC45	a.A.	45	43,1	54,2	70	25m
PADC70	a.A.	70	66,0	79,8	95	10m

Art. Nr. schwarz art. no. black	Art. Nr. grau art. no. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm	VPE unit
PADC06-L	a.A.	6	6,2	11,2	15	50m
PADC10-L	a.A.	10	7,9	12,9	15	50m
PADC12-L	a.A.	12	10,3	15,8	15	50m
PADC17-L	a.A.	17	13,9	21,0	20	50m
PADC23-L	a.A.	23	20,5	28,3	20	50m
PADC29-L	a.A.	29	26,6	34,5	35	25m
PADC36-L	a.A.	36	32,0	41,8	40	25m
PADC48-L	a.A.	48	43,0	54,2	70	25m

PPDC



Ausführung construction	Standardprofil, mittelschwer, teilbar standard profile, medium heavy, separable	
Werkstoff material	PA6 UL94 V0 (PPDC) PA6 UL94 V2 (PPDC-L)	
Temperatur temperature	-40°C - +135°C kurzz. / short term +150°C	
Schutzart protection	IP54	
gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	JAW-FIT-System	ab Seite 60
Seite page	LCO-System	

Wellrohr PP, schwarz, teilbar
corrugated tube PP, black, separableEigenschaften
properties

flexibel - hohe Scheiteldruckfestigkeit - selbstverlöschend - UV-beständig - halogenfrei - flammwidrig
benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei
flexible - high compressive strength - self extinguishing - UV-resistant - free of halogene - flame retardant
petrol resistant - oil resistant - acid resistant - free of silicone and cadmium

Anwendungen
applicationMaschinenbau
machine-building ✓Elektroinstallation
electro-installation ✓Fahrzeugbau
automotive ✓EMV-Anwendungen
EMC-applicationAutomation
automation ✓Bahn
railway ✓Schiffsbau
shipbuilding ✓EX-Anwendungen
EX-application

Art. Nr. schwarz art. no. black	Art. Nr. grau art. no. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm	VPE unit
PPDC06	a.A.	6	6,3	10,0	15	50m
PPDC10	a.A.	10	8,7	13,6	15	50m
PPDC11	a.A.	11	11,0	16,1	15	50m
PPDC14	a.A.	14	12,5	18,5	20	50m
PPDC16	a.A.	16	16,0	21,5	20	50m
PPDC20	a.A.	20	19,5	25,5	25	50m
PPDC23	a.A.	23	24,2	31,0	35	50m
PPDC29	a.A.	29	27,3	35,5	35	25m
PPDC37	a.A.	37	31,0	41,4	40	25m
PPDC45	a.A.	45	42,7	54,0	70	25m
PPDC70	a.A.	70	66,0	79,8	95	10m

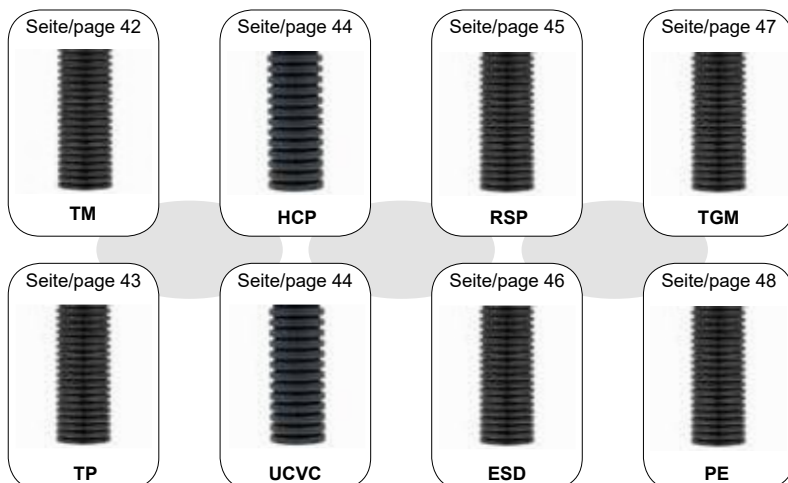
Art. Nr. schwarz art. no. black	Art. Nr. grau art. no. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm bending radius mm	VPE unit
PPDC06-L	a.A.	6	6,2	11,2	15	50m
PPDC10-L	a.A.	10	7,9	12,9	15	50m
PPDC12-L	a.A.	12	10,3	15,8	15	50m
PPDC17-L	a.A.	17	13,9	21,0	20	50m
PPDC23-L	a.A.	23	20,5	28,3	20	50m
PPDC29-L	a.A.	29	26,6	34,5	35	25m
PPDC36-L	a.A.	36	32,0	41,8	40	25m
PPDC48-L	a.A.	48	43,0	54,2	70	25m





TYP / TYPE	SM	S-SM	MSM	SF	MSF
Seite / Page	Seite 60	Seite 62	Seite 64	Seite 65	Seite 66
PRODUKT-EIGENSCHAFTEN PRODUCT FEATURES	Wellrohrverschraubung, GERADE Bauform, mit starrem Kunststoff-Außengewinde - metrisch, PG oder Zoll, bis IP69K möglich.	Wellrohrverschraubung SLIM-LINE, GERADE Bauform, mit starrem Kunststoff-Außengewinde - metrisch und PG.	Wellrohrverschraubung, GERADE Bauform, mit drehbarem METALL-AUSSENGEWINDE - metrisch und PG.	Wellrohrverschraubung, GERADE Bauform, mit Kunststoff- INNENGEWINDE - metrisch und PG.	Wellrohrverschraubung, GERADE Bauform, mit METALL- INNENGEWINDE - metrisch und PG.
MATERIAL	Polyamid 6 polyamide 6	Polyamid 6 polyamide 6	PA 6/Messing vernickelt PA 6/nickel-plated brass	Polyamid 6 polyamide 6	PA 6/Messing vernickelt PA 6/nickel-plated brass
GRÖSSEN - NW SIZES - DN	7 - 48	7 - 48	10 - 48	7 - 48	7 - 48
TEMPERATUR TEMPERATURE	-40°C - +105°C kurzz./short term +150°C	-40°C - +105°C kurzz./short term +150°C	-40°C - +105°C kurzz./short term +150°C	-40°C - +105°C kurzz./short term +150°C	-40°C - +105°C kurzz./short term +150°C
BRENNBARKEIT FLAMMABILITY	UL94 V0	UL94 V0	UL94 V0	UL94 V0	UL94 V0
SCHUTZART PROTECTION	IP66 / 68 / 69K	IP66	IP68 / 69K	IP68 / 69K	IP68 / 69K
GEMÄSS ACCORDING TO	IEC EN 61386	IEC EN 61386	IEC EN 61386	IEC EN 61386	IEC EN 61386
ZULASSUNGEN & ATTRIBUTE CERTIFICATION & PROPERTIES					

PASSENDE WELLROHRE
SUITABLE CORRUGATED CONDUITS





BN

MBN

BF

MBF

FF

FL

Seite 67

Seite 68

Seite 69

Seite 70

Seite 71

Seite 71

Wellrohrverschraubung, **BOGEN 90°**, mit starrem Kunststoff- Außengewinde - metrisch, PG oder Zoll.

Wellrohrverschraubung, **BOGEN 90°**, mit drehbarem **METALL-AUSSENGEWINDE** - metrisch und PG.

Wellrohrverschraubung, **BOGEN 45°**, mit starrem Kunststoff- Außengewinde - metrisch, PG oder Zoll.

Wellrohrverschraubung, **BOGEN 45°**, mit drehbarem **METALL-AUSSENGEWINDE** - metrisch und PG.

Wellrohr- **FLANSCHANSCHLUSS, BOGEN 45°**.

Wellrohr- **FLANSCHANSCHLUSS, BOGEN 90°**.

Fitting for corrugated conduits, **ELBOW 90°**, with rigid male plastic thread - metric, PG and GAS.

Fitting for corrugated conduits, **ELBOW 90°**, with swivelling **MALE METAL THREAD**, - metric and PG.

Fitting for corrugated conduits, **ELBOW 45°**, with rigid male plastic thread - metric, PG and GAS.

Fitting for corrugated conduits, **ELBOW 45°**, with swivelling **MALE METAL THREAD**, - metric and PG.

FLANGE CONNECTOR for corrugated conduits, **ELBOW 45°**.

FLANGE CONNECTOR for corrugated conduits, **ELBOW 90°**.

Polyamid 6
polyamide 6

PA 6/Messing vernickelt
PA 6/nickel-plated brass

Polyamid 6
polyamide 6

PA 6/Messing vernickelt
PA 6/nickel-plated brass

Polyamid 6
polyamide 6

Polyamid 6
polyamide 6

7 - 48

10 - 48

10 - 48

10 - 48

17 - 48

17 - 48

-40°C - +105°C
kurzz./short term +150°C

-40°C - +105°C
kurzz./short term +150°C

-40°C - +105°C
kurzz./short term +150°C

-40°C - +105°C
kurzz./short term +150°C

-40°C - +105°C
kurzz./short term +150°C

-40°C - +105°C
kurzz./short term +150°C

UL94 V0

UL94 V0

UL94 V0

UL94 V0

UL94 V0

UL94 V0

IP66 / 68 / 69K

IP68 / 69K

IP66 / 68 / 69K

IP68 / 69K

IP66 / 68 / 69K

IP66 / 68 / 69K

IEC EN 61386

IEC EN 61386

IEC EN 61386

IEC EN 61386

IEC EN 61386

IEC EN 61386



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PFA

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ECOT

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PADC

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PPDC

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TPE

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FDA

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PADC-L

Seite/page 54

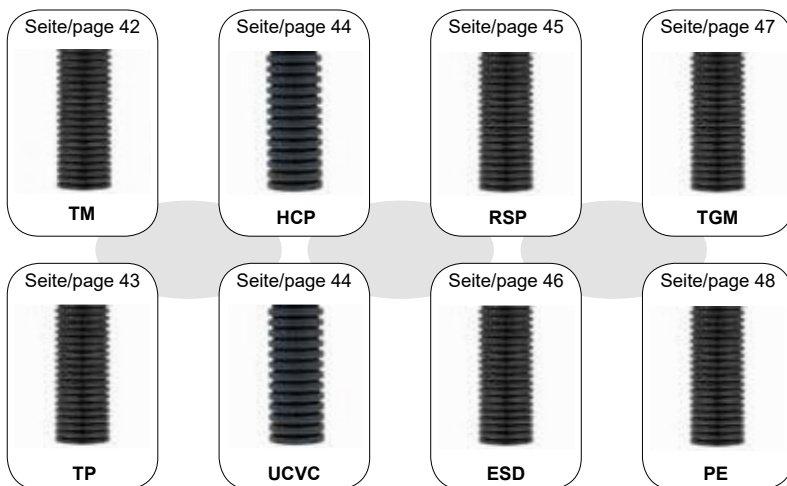


PPDC-L



TYP / TYPE	SR	MSR	CSF	SFMIL	SFA
Seite / Page	Seite 72	Seite 74	Seite 76	Seite 76	Seite 77
PRODUKT-EIGENSCHAFTEN PRODUCT FEATURES	Wellrohrverschraubung, gerade Bauform, mit ZUGENTLASTUNG und Kunststoff- Außengewinde - metrisch, PG oder Zoll.	Wellrohrverschraubung, gerade Bauform, mit ZUGENTLASTUNG und METALL-AUSSENGEWINDE - metrisch, PG oder Zoll.	Wellrohrverschraubung, gerade Bauform, mit metrischem Kunststoff-Innengewinde für SENSOREN .	Wellrohrverschraubung, gerade Bauform, mit UNEF Kunststoff-Innengewinde.	Wellrohrverschraubung, gerade Bauform, mit UNEF Kunststoff- Innengewinde, für AMPHENOL CPC Anschlüsse.
MATERIAL	Polyamid 6 polyamide 6	PA 6/Messing vernickelt PA 6/nickel-plated brass	Polyamid 6 polyamide 6	Polyamid 6 polyamide 6	Polyamid 6 polyamide 6
GRÖSSEN - NW SIZES - DN	7 - 48	7 - 48	7 - 10	12 - 48	7 - 23
TEMPERATUR TEMPERATURE	-40°C - +105°C kurzz./short term +150°C	-40°C - +105°C kurzz./short term +150°C	-40°C - +105°C kurzz./short term +150°C	-40°C - +105°C kurzz./short term +150°C	-40°C - +105°C kurzz./short term +150°C
BRENNBARKEIT FLAMMABILITY	UL94 V0	UL94 V0	UL94 V0	UL94 V0	UL94 V0
SCHUTZART PROTECTION	IP68 / 69K	IP68 / 69K	IP66	68 / 69K	IP66
GEMÄSS ACCORDING TO	IEC EN 61386	IEC EN 61386	IEC EN 61386	IEC EN 61386	IEC EN 61386
ZULASSUNGEN & ATTRIBUTE					
CERTIFICATION & PROPERTIES					

PASSENDEN VERSCHRAUBUNGEN UND ZUBEHÖR
SUITABLE FITTINGS AND ACCESSORIES





SFB	SMEMC	JS	JE	JER	LCOV
Seite 77	Seite 78	Seite 79	Seite 79	Seite 79	Seite 80

Wellrohrverschraubung, gerade Bauform, mit UNEF Kunststoff- Innengewinde, für BURNDY UTG-6 / ITT CANNON TRIDENT Anschlüsse.	EMV -Wellrohrverschraubung, für Wellrohre mit Metallgeflecht.	Wellrohr-Flanschanschluss für NENNWEITE 56 bis 95, GERADE Bauform, mit O-Ring.	Wellrohr-Flanschanschluss für NENNWEITE 56 bis 95, BOGEN 90° , mit O-Ring.	Wellrohr-Flanschanschluss für NENNWEITE 56 bis 95, BOGEN 90° DREHBAR , mit O-Ring.	TEILBARE Wellrohrverschraubung und Gegenmutter, für die nachträgliche Installation.
Fitting for corrugated conduits, straight type, with UNEF plastic female thread, for BURNDY UTG-6 / ITT CANNON TRIDENT connectors.	EMC -fitting for corrugated conduits with metal braid.	Flange connector for NOMINAL DIAMETERS 56 to 95, STRAIGHT type, with o-ring.	Flange connector for NOMINAL DIAMETERS 56 to 95, ELBOW 90° , with o-ring.	Flange connector for NOMINAL DIAMETERS 56 to 95, ELBOW 90° SWIVELLING , with o-ring up.	SEPARABLE / DIVISIBLE fitting and locknut for corrugated conduits, for retrofit installation.

Polyamid 6 polyamide 6	PA 6/Messing vernickelt PA 6/nickel-plated brass	Polyamid 6 polyamide 6	Polyamid 6 polyamide 6	Polyamid 6 polyamide 6	Polyamid 6 polyamide 6
12 - 29	10 - 48	56 - 95	56 - 95	56 - 95	10 - 45
-40°C - +105°C kurzz./short term +150°C	-40°C - +105°C kurzz./short term +150°C	-40°C - +105°C kurzz./short term +150°C	-40°C - +105°C kurzz./short term +150°C	-40°C - +105°C kurzz./short term +150°C	-40°C - +120°C kurzz./short term +150°C
UL94 V0	UL94 V0	UL94 V0	UL94 V0	UL94 V0	UL94 V0
IP66	IP68 / 69K	IP50/65	IP50/65	IP50/65	IP50
IEC EN 61386	IEC EN 61386	IEC EN 61386	IEC EN 61386	IEC EN 61386	IEC EN 61386



SM



Ausführung construction	starres Außengewinde rigid male thread	
Werkstoff material	Polyamid 6, UL94 V0 polyamide 6, UL94 V0	
Temperatur temperature	-40°C - +105°C kurzz. / short term +150°C	
Schutzart protection	IP66 / IP68 / IP69K	
gemäß according to	IEC EN 61386	
Passende Wellrohre suitable corrugated conduits	alle all	

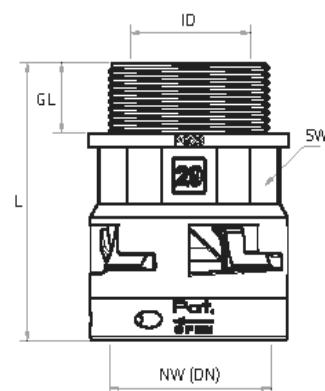


Gewindeart metrisch

Art. Nr. IP66 art. no. IP66	Art. Nr. IP68/69K art. no. IP68/69K	Gewinde thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. unit pcs.
6*SM07M12	8*SM07M12	M12	7	9,0	12	14	40,0	100
6*SM07M16	8*SM07M16	M16	7	9,0	12	14	40,0	100
6*SM10M12	8*SM10M12	M12	10	8,8	12	17	41,4	100
6*SM10M16	8*SM10M16	M16	10	10,5	12	17	41,4	100
6*SM10M20	8*SM10M20	M20	10	15,0	12	17	41,4	100
6*SM12M16	8*SM12M16	M16	12	11,0	12	20	44,6	100
6*SM12M20	8*SM12M20	M20	12	13,0	12	20	44,6	100
6*SM17M20	8*SM17M20	M20	17	14,0	13	26	46,8	50
6*SM17M25	8*SM17M25	M25	17	18,5	13	26	46,8	50
6*SM23M25	8*SM23M25	M25	23	19,0	14	32	57,0	30
6*SM23M32	8*SM23M32	M32	23	27,0	14	32	57,0	30
6*SM29M32	8*SM29M32	M32	29	26,0	15	40	59,0	20
6*SM29M40	8*SM29M40	M40	29	33,5	15	40	59,0	20
6*SM36M40	8*SM36M40	M40	36	33,7	17	50	69,0	20
6*SM36M50	8*SM36M50	M50	36	40,0	17	50	69,0	20
6*SM48M50	8*SM48M50	M50	48	42,0	17	64	75,5	10
6*SM48M63	8*SM48M63	M63	48	49,0	17	64	75,5	10

6B... = schwarz / black

6G... = grau / grey



Gewindeart Zoll

Art. Nr. IP66 art. no. IP66	Art. Nr. IP68/69K art. no. IP68/69K	Gewinde thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. unit pcs.
6*SM07G01	8*SM07G01	1/4"	7	9,0	12	14	40,0	100
6*SM10G01	8*SM10G01	1/4"	10	8,8	12	17	41,4	100
6*SM10G02	8*SM10G02	3/8"	10	10,5	12	17	41,4	100
6*SM12G02	8*SM12G02	3/8"	12	11,0	12	20	44,6	100
6*SM12G03	8*SM12G03	1/2"	12	15,0	12	20	44,6	100
6*SM17G03	8*SM17G03	1/2"	17	16,0	13	26	46,8	50
6*SM23G04	8*SM23G04	3/4"	23	22,0	14	32	57,0	30
6*SM29G05	8*SM29G05	1"	29	26,0	15	40	59,0	20
6*SM36G06	8*SM36G06	1" 1/4	36	33,7	17	50	69,0	20
6*SM48G07	8*SM48G07	1" 1/2	48	40,0	17	64	75,5	10
6*SM48G08	8*SM48G08	2"	48	49,0	17	64	75,5	10

SM



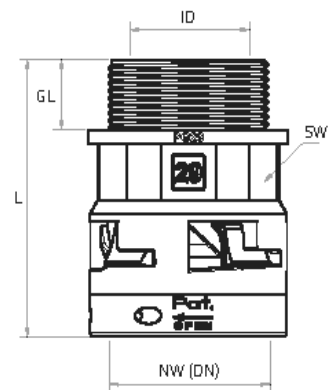
Ausführung construction	starres Außengewinde rigid male thread	
Werkstoff material	Polyamid 6, UL94 V0 polyamide 6, UL94 V0	
Temperatur temperature	-40°C - +105°C kurzz. / short term +150°C	
Schutzart protection	IP66 / IP68 / IP69K	
gemäß according to	IEC EN 61386	
Passende Wellrohre suitable corrugated conduits	alle all	



Gewindeart PG

Art. Nr. IP66 art. no. IP66	Art. Nr. IP68 art. no. IP68	Gewinde thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. unit pcs.
6*SM07P07	8*SM07P07	PG07	7	9,0	12	14	40,0	100
6*SM07P09	8*SM07P09	PG09	7	9,0	12	14	40,0	100
6*SM07P11	8*SM07P11	PG11	7	15,0	12	14	40,0	100
6*SM07P13	8*SM07P13	PG13,5	7	15,0	12	14	40,0	100
6*SM10P07	8*SM10P07	PG07	10	8,8	12	17	41,4	100
6*SM10P09	8*SM10P09	PG09	10	10,5	12	17	41,4	100
6*SM10P11	8*SM10P11	PG11	10	15,0	12	17	41,4	100
6*SM10P13	8*SM10P13	PG13,5	10	15,0	12	17	41,4	100
6*SM12P09	8*SM12P09	PG09	12	11,0	12	20	44,6	100
6*SM12P11	8*SM12P11	PG11	12	13,0	12	20	44,6	100
6*SM12P13	8*SM12P13	PG13,5	12	13,0	12	20	44,6	100
6*SM12P16	8*SM12P16	PG16	12	15,0	12	20	44,6	100
6*SM17P11	8*SM17P11	PG11	17	14,0	13	26	46,8	50
6*SM17P13	8*SM17P13	PG13,5	17	16,0	13	26	46,8	50
6*SM17P16	8*SM17P16	PG16	17	16,0	13	26	46,8	50
6*SM23P16	8*SM23P16	PG16	23	19,0	14	32	57,0	30
6*SM23P21	8*SM23P21	PG21	23	22,0	14	32	57,0	30
6*SM29P29	8*SM29P29	PG29	29	30,5	15	40	59,0	20
6*SM36P29	8*SM36P29	PG29	36	31,5	13	50	65,0	20
6*SM36P36	8*SM36P36	PG36	36	38,0	17	50	69,0	20
6*SM48P36	8*SM48P36	PG36	48	40,0	17	64	75,5	10
6*SM48P42	8*SM48P42	PG42	48	47,0	17	64	75,5	10
6*SM48P48	8*SM48P48	PG48	48	49,0	17	64	75,5	10

6B... = schwarz / black
6G... = grau / grey



Gewindeart NPT

Art. Nr. IP66 art. no. IP66	Art. Nr. IP68/69K art. no. IP68/69K	Gewinde thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. unit pcs.
6*SM12N03	8*SM12N03	1/2" NPT	12	14,0	13,5	20	46,0	100
6*SM17N03	8*SM17N03	1/2" NPT	17	15,0	13,5	26	47,3	50
6*SM23N04	8*SM23N04	3/4" NPT	23	20,0	14,0	32	57,0	30
6*SM29N05	8*SM29N05	1" NPT	29	26,0	17,3	40	61,3	20
6*SM36N06	8*SM36N06	1" 1/4 NPT	36	33,7	18,0	50	70,0	20
6*SM48N08	8*SM48N08	2" NPT	48	50,0	19,0	64	77,5	10

S-SM



RINA

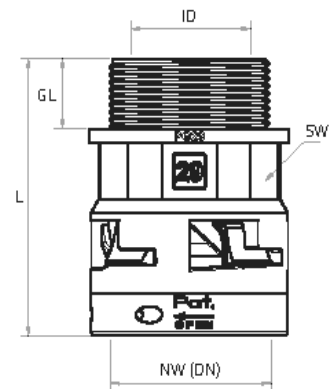


Ausführung construction	starres Außengewinde rigid male thread	
Werkstoff material	Polyamid 6, UL94 V0 polyamide 6, UL94 V0	
Temperatur temperature	-40°C - +105°C kurzz. / short term +150°C	
Schutzart protection	IP66	
gemäß according to	IEC EN 61386	
Passende Wellrohre suitable corrugated conduits	alle all	

Verschraubung PA6 mit Außengewinde
fitting PA6 with male threadKunststoffgewinde
plastic thread

Gewindeart metrisch

Art. Nr. IP66 art. no. IP66	Art. Nr. IP68/69K art. no. IP68/69K	Gewinde thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. unit pcs.
S6SM07M12	-	M12	7	9,0	12	14	40,0	100
S6SM07M16	-	M16	7	9,0	12	14	40,0	100
S6SM10M12	-	M12	10	8,8	12	17	41,4	100
S6SM10M16	-	M16	10	10,5	12	17	41,4	100
S6SM10M20	-	M20	10	15,0	12	17	41,4	100
S6SM12M16	-	M16	12	11,0	12	20	44,6	100
S6SM12M20	-	M20	12	13,0	12	20	44,6	100
S6SM17M20	-	M20	17	14,0	13	26	46,8	50
S6SM17M25	-	M25	17	18,5	13	26	46,8	50
S6SM23M25	-	M25	23	19,0	14	32	57,0	30
S6SM23M32	-	M32	23	27,0	14	32	57,0	30
S6SM29M32	-	M32	29	26,0	15	40	59,0	20
S6SM29M40	-	M40	29	33,5	15	40	59,0	20
S6SM36M40	-	M40	36	33,7	17	50	69,0	20
S6SM36M50	-	M50	36	40,0	17	50	69,0	20
S6SM48M50	-	M50	48	42,0	17	64	75,5	10
S6SM48M63	-	M63	48	49,0	17	64	75,5	10

KEINE BAHNZULASSUNG
NO RAILWAY APPROVAL

S-SM



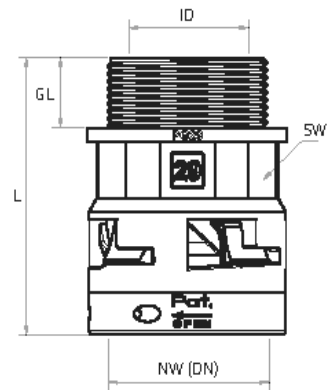
Ausführung construction	starres Außengewinde rigid male thread	
Werkstoff material	Polyamid 6, UL94 V0 polyamide 6, UL94 V0	
Temperatur temperature	-40°C - +105°C kurzz. / short term +150°C	
Schutzart protection	IP66	
gemäß according to	IEC EN 61386	
Passende Wellrohre suitable corrugated conduits	alle all	



Gewindeart PG

Art. Nr. IP66 art. no. IP66	Art. Nr. IP68/69K art. no. IP68/69K	Gewinde thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. unit pcs.
S6SM07P07	-	PG07	7	9,0	12	14	40,0	100
S6SM07P09	-	PG09	7	9,0	12	14	40,0	100
S6SM07P11	-	PG11	7	15,0	12	14	40,0	100
S6SM07P13	-	PG13,5	7	15,0	12	14	40,0	100
S6SM10P07	-	PG07	10	8,8	12	17	41,4	100
S6SM10P09	-	PG09	10	10,5	12	17	41,4	100
S6SM10P11	-	PG11	10	15,0	12	17	41,4	100
S6SM10P13	-	PG13,5	10	15,0	12	17	41,4	100
S6SM12P09	-	PG09	12	11,0	12	20	44,6	100
S6SM12P11	-	PG11	12	13,0	12	20	44,6	100
S6SM12P13	-	PG13,5	12	13,0	12	20	44,6	100
S6SM12P16	-	PG16	12	15,0	12	20	44,6	100
S6SM17P11	-	PG11	17	14,0	13	26	46,8	50
S6SM17P13	-	PG13,5	17	16,0	13	26	46,8	50
S6SM17P16	-	PG16	17	16,0	13	26	46,8	50
S6SM23P16	-	PG16	23	19,0	14	32	57,0	30
S6SM23P21	-	PG21	23	22,0	14	32	57,0	30
S6SM29P29	-	PG29	29	30,5	15	40	59,0	20
S6SM36P29	-	PG29	36	31,5	13	50	65,0	20
S6SM36P36	-	PG36	36	38,0	17	50	69,0	20
S6SM48P36	-	PG36	48	40,0	17	64	75,5	10
S6SM48P42	-	PG42	48	47,0	17	64	75,5	10
S6SM48P48	-	PG48	48	49,0	17	64	75,5	10

KEINE BAHNZULASSUNG
NO RAILWAY APPROVAL



MSM



RINA



Ausführung construction	drehbares Außengewinde swivelling male thread	
Werkstoff material	Polyamid 6, UL94 V0 Messing vernickelt polyamide 6, UL94 V0 nickel-plated brass	
Temperatur temperature	-40°C - +105°C kurzz. / short term +150°C	
Schutzart protection	IP68 / IP69K	
gemäß according to	IEC EN 61386	
Passende Wellrohre suitable corrugated conduits	alle all	



Gewindeart metrisch

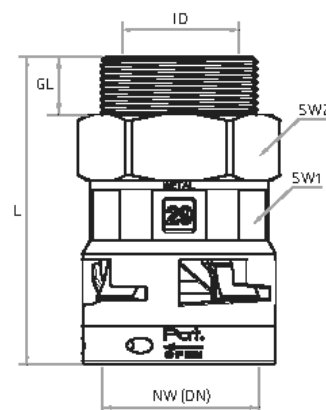
Art. Nr. art. no.	Gewinde thread	NW DN	ID mm	GL mm	SW1 mm	SW2 mm	L mm	VPE Stk. unit pcs.
M8*SM10M16	M16	10	11,2	11	17	20	53,4	50
M8*SM12M16	M16	12	12,0	11	20	24	57,1	50
M8*SM17M20	M20	17	15,5	12	26	28	59,3	50
M8*SM17M25	M25	17	16,2	12	26	28	59,3	50
M8*SM23M25	M25	23	20,0	12	32	35	68,5	30
M8*SM23M32	M32	23	22,6	12	32	35	68,5	30
M8*SM29M32	M32	29	27,0	13,5	40	42	72,0	20
M8*SM36M40	M40	36	35,5	13,5	50	52	81,0	20
M8*SM48M50	M50	48	45,0	14,5	64	64	92,0	10
M8*SM48M63	M63	48	47,7	14,5	64	64	92,0	10

M8B... = schwarz / black

M8G... = grau / grey

Gewindeart PG

Art. Nr. art. no.	Gewinde thread	NW DN	ID mm	GL mm	SW1 mm	SW2 mm	L mm	VPE Stk. unit pcs.
M8*SM10P09	PG09	10	11,2	11	17	20	53,4	50
M8*SM12P11	PG11	12	12,0	11	20	24	57,1	50
M8*SM12P13	PG13,5	12	12,0	12	20	24	58,1	50
M8*SM17P13	PG13,5	17	16,2	12	26	28	59,3	50
M8*SM17P16	PG16	17	16,2	12	26	28	59,3	50
M8*SM23P21	PG21	23	22,6	12	32	35	68,5	30
M8*SM29P29	PG29	29	32,0	13,5	40	42	72,0	20
M8*SM36P36	PG36	36	38,5	13,5	50	52	81,0	20
M8*SM48P48	PG48	48	47,7	14,5	64	64	92,0	10



SF



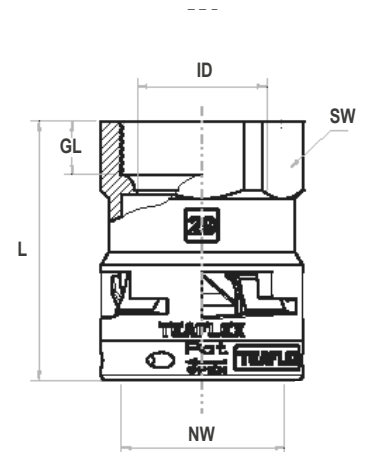
Ausführung construction	starres Innengewinde rigid female thread	
Werkstoff material	Polyamid 6, UL94 V0 polyamide 6, UL94 V0	
Temperatur temperature	-40°C - +105°C kurzz. / short term +150°C	
Schutzart protection	IP68 / IP69K	
gemäß according to	IEC EN 61386	
Passende Wellrohre suitable corrugated conduits	alle all	

Verschraubung PA6 mit Kunststoff-Innengewinde
fitting PA6 with female plastic thread



Gewindeart metrisch

Art. Nr. schwarz art. no. black	Gewinde thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. unit pcs.
8BSF07M12	M12	7	9,0	8	15	35	100
8BSF10M16	M16	10	11,6	11	20	39,4	50
8BSF12M16	M16	12	12,5	11	22	43	50
8BSF17M20	M20	17	18,0	11,5	26	44,35	50
8BSF23M25	M25	23	23,0	11,5	30	53,5	30
8BSF23M32	M32	23	26,0	11,5	38	53,5	30
8BSF29M32	M32	29	29,5	11,5	38	55	20
8BSF29M40	M40	29	29,5	11,5	44	55	20
8BSF36M40	M40	36	36,5	11,5	45	63	20
8BSF48M50	M50	48	48,0	15,5	58	73,5	10
8BSF48M63	M63	48	48,5	18,0	70	76,5	10



Gewindeart PG

Art. Nr. art. no.	Gewinde thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. unit pcs.
8BSF07P07	PG7	7	7,1	9,0	17	37,5	100
8BSF10P07	PG7	10	7,1	9,0	17	38,9	50
8BSF10P09	PG9	10	10,1	9,0	20	39,4	50
8BSF12P11	PG11	12	11,5	9,6	24	43,2	50
8BSF12P13	PG13,5	12	13,5	9,5	26	43,1	50
8BSF17P13	PG13,5	17	13,5	9,5	26	44,3	50
8BSF17P13	PG16	17	16,2	9,0	27	43,3	50
8BSF23P21	PG21	23	21,0	11,0	34	57,0	30
8BSF23P29	PG29	23	26,0	13,0	42	59,5	30
8BSF29P29	PG29	29	29,2	13,0	42	59,5	20
8BSF36P36	PG36	36	37,8	13,5	55	68,0	20
8BSF48P48	PG48	48	47,0	15,0	70	76,5	10

MSF



Ausführung construction	starres Innengewinde rigid female thread	
Werkstoff material	Polyamid 6, UL94 V0 Messing vernickelt polyamide 6, UL 94 V0 nickel-plated brass	
Temperatur temperature	-40°C - +105°C kurzz. / short term +150°C	
Schutzart protection	IP68 / IP69K	
gemäß according to	IEC EN 61386	
Passende Wellrohre suitable corrugated conduits	alle all	

Verschraubung PA6 mit Metall-Innengewinde
fitting PA6 with female metal thread

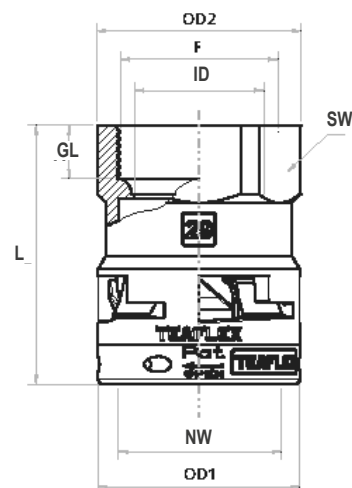


Gewindeart metrisch

Art. Nr. schwarz art. no. black	Gewinde thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. unit pcs.
M8BSF07M12	M12	7	9,0	8	15	35	100
M8BSF10M16	M16	10	11,6	11	20	39,4	50
M8BSF12M16	M16	12	12,5	11	22	43	50
M8BSF17M20	M20	17	18,0	11,5	26	44,35	50
M8BSF23M25	M25	23	23,0	11,5	30	53,5	30
M8BSF23M32	M32	23	26,0	11,5	38	53,5	30
M8BSF29M32	M32	29	29,5	11,5	38	55	20
M8BSF29M40	M40	29	29,5	11,5	44	55	20
M8BSF36M40	M40	36	36,5	11,5	45	63	20
M8BSF48M50	M50	48	48,0	15,5	58	73,5	10
M8BSF48M63	M63	48	48,5	18,0	70	76,5	10

Gewindeart PG

Art. Nr. art. no.	Gewinde thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. unit pcs.
M8BSF07P07	PG7	7	7,1	9,0	17	37,5	100
M8BSF10P07	PG7	10	7,1	9,0	17	38,9	50
M8BSF10P09	PG9	10	10,1	9,0	20	39,4	50
M8BSF12P11	PG11	12	11,5	9,6	24	43,2	50
M8BSF12P13	PG13,5	12	13,5	9,5	26	43,1	50
M8BSF17P13	PG13,5	17	13,5	9,5	26	44,3	50
M8BSF17P13	PG16	17	16,2	9,0	27	43,3	50
M8BSF23P21	PG21	23	21,0	11,0	34	57,0	30
M8BSF23P29	PG29	23	26,0	13,0	42	59,5	30
M8BSF29P29	PG29	29	29,2	13,0	42	59,5	20
M8BSF36P36	PG36	36	37,8	13,5	55	68,0	20
M8BSF48P48	PG48	48	47,0	15,0	70	76,5	10



BN



Ausführung construction	Bogen 90°, starres Außengewinde elbow 90°, rigid male thread	
Werkstoff material	Polyamid 6, UL94 V0 polyamide 6, UL94 V0	
Temperatur temperature	-40°C - +105°C kurzz. / short term +150°C	
Schutzart protection	IP66 / 68 / IP69K	
gemäß according to	IEC EN 61386	
Passende Wellrohre suitable corrugated conduits	alle all	

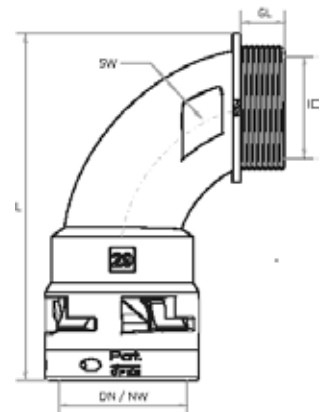


Gewindeart metrisch

Art. Nr. IP66 art. no. IP66	Art. Nr. IP68 art. no. IP68	Gewinde thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. unit pcs.
6*BN07M12	8*BN07M12	M12	7	6,5	11	9,5	58,5	100
6*BN10M12	8*BN10M12	M12	10	6,5	11	9,5	59,5	100
6*BN10M16	8*BN10M16	M16	10	10,0	11	13,0	61,5	100
6*BN12M16	8*BN12M16	M16	12	10,0	11	14,0	64,0	100
6*BN12M20	8*BN12M20	M20	12	12,0	11	15,0	67,0	100
6*BN17M20	8*BN17M20	M20	17	13,8	12	17,0	75,0	50
6*BN23M25	8*BN23M25	M25	23	18,0	12	22,0	88,5	30
6*BN29M32	8*BN29M32	M32	29	23,7	13	28,0	100,3	20
6*BN36M40	8*BN36M40	M40	36	31,8	15	36,0	122,8	20
6*BN36M50	8*BN36M50	M50	36	36,0	15	40,0	127,5	20
6*BN48M50	8*BN48M50	M50	48	39,8	15	46,0	139,7	10
6*BN48M63	8*BN48M63	M63	48	47,8	15	55,0	144,0	10

6B... = schwarz / black

6G... = grau / grey



Gewindeart PG

Art. Nr. IP66 art. no. IP66	Art. Nr. IP68 art. no. IP68	Gewinde thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. unit pcs.
6*BN07P07	8*BN07P07	PG7	7	6,5	11	9,5	58,5	100
6*BN07P09	8*BN07P09	PG9	7	6,5	11	9,5	59,5	100
6*BN07P11	8*BN07P11	PG11	7	6,5	11	9,5	61,0	100
6*BN07P13	8*BN07P13	PG13,5	7	6,5	11	9,5	62,5	100
6*BN10P07	8*BN10P07	PG7	10	6,5	11	9,5	59,5	100
6*BN10P09	8*BN10P09	PG9	10	10,0	11	13,0	60,5	100
6*BN10P11	8*BN10P11	PG11	10	10,0	11	13,0	62,0	100
6*BN10P13	8*BN10P13	PG13,5	10	10,0	11	13,0	63,5	100
6*BN12P09	8*BN12P09	PG9	12	10,0	11	14,0	63,0	100
6*BN12P11	8*BN12P11	PG11	12	12,0	11	15,0	64,4	100
6*BN12P13	8*BN12P13	PG13,5	12	12,0	11	15,0	66,0	100
6*BN17P13	8*BN17P13	PG13,5	17	13,8	12	17,0	75,0	50
6*BN17P16	8*BN17P16	PG16	17	16,4	12	20,0	76,0	50
6*BN23P21	8*BN23P21	PG21	23	21,7	12	26,0	90,0	30
6*BN29P29	8*BN29P29	PG29	29	29,1	13	32,0	102,8	20
6*BN36P36	8*BN36P36	PG36	36	36,0	13	40,0	125,0	20
6*BN48P48	8*BN48P48	PG48	48	47,8	13	55,0	144,0	10

MBN



RINA



Ausführung construction	Bogen 90°, drehbares Außengewinde elbow 90°, swivelling male thread	
Werkstoff material	Polyamid 6, UL 94 V0 Messing vernickelt polyamide 6, UL94 V0 nickel-plated brass	
Temperatur temperature	-40°C - +105°C kurzz. / short term +150°C	
Schutzart protection	IP68 / IP69K	
gemäß according to	IEC EN 61386	
Passende Wellrohre suitable corrugated conduits	alle all	

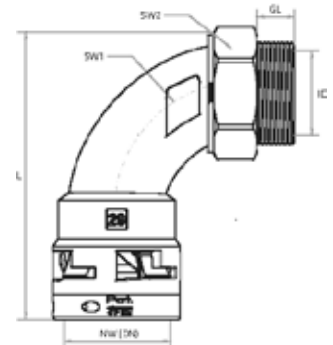


Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	NW DN	ID mm	GL mm	SW1 mm	SW2 mm	L mm	VPE Stk. unit pcs.
M8*BN10M16	M16	10	10,0	11,0	13	20	60,5	50
M8*BN12M16	M16	12	12,0	11,0	15	24	65,0	50
M8*BN12M20	M20	12	12,0	12,0	15	24	65,0	50
M8*BN17M20	M20	17	15,5	12,0	20	28	76,0	50
M8*BN17M25	M25	17	16,4	12,0	20	28	76,0	50
M8*BN23M25	M25	23	21,7	12,0	26	35	90,0	30
M8*BN23M32	M32	23	21,7	12,0	26	35	90,0	30
M8*BN29M32	M32	29	29,1	13,5	32	42	101,8	20
M8*BN36M40	M40	36	36,0	13,5	40	52	123,5	20
M8*BN48M50	M50	48	45,0	14,5	55	64	142,4	10
M8*BN48M63	M63	48	47,8	14,5	55	64	142,5	10

M8B... = Schwarz / black

M8G... = grau / grey



Gewindeart PG

Art. Nr. art. no.	Gewinde thread	NW DN	ID mm	GL mm	SW1 mm	SW2 mm	L mm	VPE Stk. unit pcs.
M8*BN10P09	PG9	10	10,0	11,0	13	20	60,5	50
M8*BN12P11	PG11	12	12,0	11,0	15	24	65,0	50
M8*BN17P13	PG13,5	17	16,2	12,0	20	28	76,0	50
M8*BN17P16	PG16	17	16,4	12,0	20	28	76,0	50
M8*BN23P21	PG21	23	21,7	12,0	26	35	90,0	30
M8*BN29P29	PG29	29	29,1	13,5	32	42	101,8	20
M8*BN36P36	PG36	36	36,0	13,5	40	52	123,5	20
M8*BN48P48	PG48	48	47,8	14,5	55	64	142,4	10

BF



Ausführung construction	Bogen 45°, starres Außengewinde elbow 45°, rigid male thread	
Werkstoff material	Polyamid 6, UL94 V0 polyamide 6, UL94 V0	
Temperatur temperature	-40°C - +105°C kurzz. / short term +150°C	
Schutzart protection	IP66 / 68 / IP69K	
gemäß according to	IEC EN 61386	
Passende Wellrohre suitable corrugated conduits	alle all	

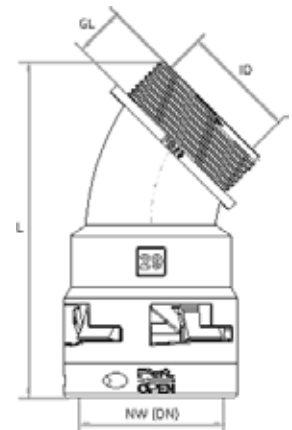


Gewindeart metrisch

Art. Nr. IP66 art. no. IP66	Art. Nr. IP68/69K art. no. IP68/69K	Gewinde thread	NW DN	ID mm	GL mm	L mm	VPE Stk. unit pcs.
6*BF10M12	8*BF10M12	M12	10	6,5	11	52,0	100
6*BF10M16	8*BF10M16	M16	10	10,0	11	53,2	100
6*BF12M16	8*BF12M16	M16	12	10,0	11	57,2	100
6*BF12M20	8*BF12M20	M20	12	12,0	11	58,6	100
6*BF17M20	8*BF17M20	M20	17	13,8	12	65,0	50
6*BF23M25	8*BF23M25	M25	23	18,0	12	78,3	30
6*BF29M32	8*BF29M32	M32	29	23,7	13	86,2	20
6*BF36M40	8*BF36M40	M40	36	31,8	15	101,8	20
6*BF36M50	8*BF36M50	M50	36	36,0	15	105,3	20
6*BF48M50	8*BF48M50	M50	48	39,8	15	119,3	10
6*BF48M63	8*BF48M63	M63	48	47,8	15	123,5	10

6B... = Schwarz / black

6G... = grau / grey



Gewindeart PG

Art. Nr. IP66 art. no. IP66	Art. Nr. IP68/69K art. no. IP68/69K	Gewinde thread	NW DN	ID mm	GL mm	L mm	VPE Stk. unit pcs.
6*BF10P07	8*BF10P07	PG7	10	6,5	11	52,0	100
6*BF10P09	8*BF10P09	PG9	10	10,0	11	53,2	100
6*BF10P11	8*BF10P11	PG11	10	10,0	11	54,3	100
6*BF10P13	8*BF10P13	PG13,5	10	10,0	11	55,0	100
6*BF12P09	8*BF12P09	PG9	12	10,0	11	57,2	100
6*BF12P11	8*BF12P11	PG11	12	12,0	11	58,4	100
6*BF12P13	8*BF12P13	PG13,5	12	12,0	11	59,0	100
6*BF17P13	8*BF17P13	PG13,5	17	13,8	12	65,3	50
6*BF17P16	8*BF17P16	PG16	17	16,4	12	66,0	50
6*BF23P21	8*BF23P21	PG21	23	21,7	12	79,5	30
6*BF29P29	8*BF29P29	PG29	29	29,1	13	88,2	20
6*BF36P36	8*BF36P36	PG36	36	36,0	13	102,6	20
6*BF48P48	8*BF48P48	PG48	48	47,8	13	121,0	10

MBF



RINA



Ausführung construction	Bogen 45°, drehbares Außengewinde elbow 45°, swivelling male thread	
Werkstoff material	Polyamid 6, UL 94 V0 Messing vernickelt polyamide 6, UL94 V0 nickel-plated brass	
Temperatur temperature	-40°C - +105°C kurzz. / short term +150°C	
Schutzart protection	IP68 / IP69K	
gemäß according to	IEC EN 61386	
Passende Wellrohre suitable corrugated conduits	alle all	



Gewindeart metrisch

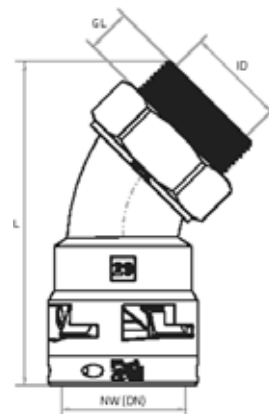
Art. Nr. art. no.	Gewinde thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. unit pcs.
M8*BF10M16	M16	10	10,0	11,0	20	63,0	50
M8*BF12M16	M16	12	12,0	11,0	24	68,0	50
M8*BF12M20	M20	12	12,0	12,0	24	68,0	50
M8*BF17M20	M20	17	15,5	12,0	28	74,6	50
M8*BF17M25	M25	17	16,4	12,0	28	74,6	50
M8*BF23M25	M25	23	21,7	12,0	35	88,2	30
M8*BF23M32	M32	23	21,7	12,0	35	88,2	30
M8*BF29M32	M32	29	29,1	13,5	42	97,0	20
M8*BF36M40	M40	36	36,0	13,5	52	111,5	20

M8B... = Schwarz / black

M8G... = grau / grey

Gewindeart PG

Art. Nr. art. no.	Gewinde thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. unit pcs.
M8*BF10P09	PG9	10	10,0	11,0	20	63,0	50
M8*BF12P11	PG11	12	12,0	11,0	24	68,2	50
M8*BF17P13	PG13,5	17	16,2	12,0	28	74,8	50
M8*BF17P16	PG16	17	16,4	12,0	28	75,9	50
M8*BF23P21	PG21	23	21,7	12,0	35	89,6	30
M8*BF29P29	PG29	29	29,1	13,5	42	99,0	20
M8*BF36P36	PG36	36	36,0	13,5	52	114,3	20
M8*BF48P48	PG48	48	47,8	14,5	64	135,0	10





FF-FL

Ausführung construction	Flanschanschluss 45°/90° flange connector 45°/90°	
Werkstoff material	Polyamid 6, UL94 V0 polyamide 6, UL94 V0	
Temperatur temperature	-40°C - +105°C kurzz. / short term +150°C	
Schutzart protection	IP66 / 68 / IP69K	
gemäß according to	IEC EN 61386	
Passende Wellrohre suitable corrugated conduits	alle all	



Flanschanschluss 90°
flange connector 90°

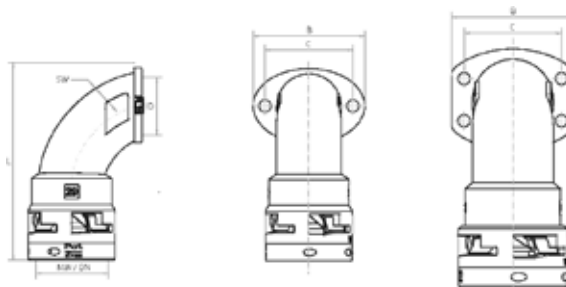
Flanschanschluss 45°
flange connector 45°

FF-Flansch / flange / 90°

Art. Nr. IP66 art. no. IP66	Art. Nr. IP68/69K art. no. IP68/69K	NW DN	ID mm	B mm	C mm	SW mm	L mm	VPE Stk. unit pcs.
6*FF17	8*FF17	17	16,4	40,0	29,5	20	60,0	50
6*FF23	8*FF23	23	21,7	53,0	40,0	26	75,0	30
6*FF29	8*FF29	29	29,1	58,5	46,0	32	81,4	20
6*FF36	8*FF36	36	36,0	64,0	51,0	40	97,3	20
6*FF48	8*FF48	48	47,8	78,0	64,0	55	115,0	10

6B... = Schwarz / black

6G... = grau / grey

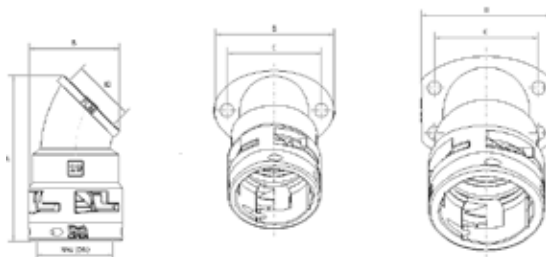


FL-Flansch / flange / 45°

Art. Nr. IP66 art. no. IP66	Art. Nr. IP68/69K art. no. IP68/69K	NW DN	ID mm	B mm	C mm	SW mm	L mm	VPE Stk. unit pcs.
6*FL17	8*FL17	17	16,4	40,0	29,5	20	74,5	50
6*FL23	8*FL23	23	21,7	53,0	40,0	26	89,5	30
6*FL29	8*FL29	29	29,1	58,5	46,0	32	100,3	20
6*FL36	8*FL36	36	36,0	64,0	51,0	40	124,0	20

6B... = Schwarz / black

6G... = grau / grey



SR

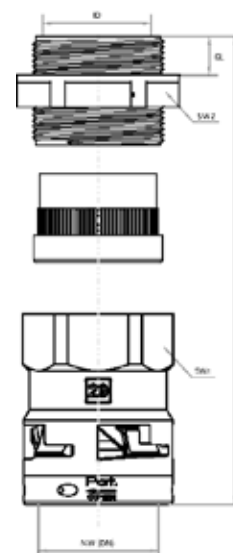


Ausführung construction	Zugentlastung, starres Außengewinde strain relief, rigid male thread
Werkstoff material	Polyamid 6 polyamide 6
Temperatur temperature	-40°C - +105°C kurzz. / short term +150°C
Schutzart protection	IP68 / IP69K
gemäß according to	IEC EN 61386
Passende Wellrohre suitable corrugated conduits	alle all



Gewindeart metrisch

Art. Nr. schwarz art. no. black	Gewinde thread	Klemmbereich mm	NW DN	ID mm	GL mm	SW1 mm	SW2 mm	L mm	VPE Stk. unit pcs.
8BSR10M1607	M16	4,0 - 6,5	10	9,5	9	20	19	53,4	50
8BSR10M1608	M16	5,0 - 8,0	10	9,5	9	20	19	53,4	50
8BSR10M1609	M16	6,5 - 9,5	10	9,5	9	20	19	53,4	50
8BSR12M2007	M20	4,0 - 6,5	12	10,5	9	26	24	57,1	50
8BSR12M2008	M20	5,0 - 8,0	12	10,5	9	26	24	57,1	50
8BSR12M2009	M20	6,5 - 9,5	12	10,5	9	26	24	57,1	50
8BSR12M2011	M20	7,0 - 10,5	12	10,5	9	26	24	57,1	50
8BSR12M2013	M20	9,0 - 13,0	12	10,5	9	26	24	57,1	50
8BSR17M2007	M20	4,0 - 6,5	17	13,0	9	26	24	58,3	50
8BSR17M2008	M20	5,0 - 8,0	17	13,0	9	26	24	58,3	50
8BSR17M2009	M20	6,5 - 9,5	17	13,0	9	26	24	58,3	50
8BSR17M2011	M20	7,0 - 10,5	17	13,0	9	26	24	58,3	50
8BSR17M2013	M20	9,0 - 13,0	17	13,0	9	26	24	58,3	50
8BSR23M2511	M25	7,0 - 10,5	23	20,5	11	34	33	78,0	30
8BSR23M2513	M25	9,0 - 13,0	23	20,5	11	34	33	78,0	30
8BSR23M2516	M25	11,5 - 15,5	23	20,5	11	34	33	78,0	30
8BSR23M2518	M25	14,0 - 18,0	23	20,5	11	34	33	78,0	30
8BSR23M2520	M25	17,0 - 20,5	23	20,5	11	34	33	78,0	30
8BSR23M3216	M32	11,5 - 15,5	23	20,5	11	42	43	82,5	30
8BSR23M3218	M32	14,0 - 18,0	23	20,5	11	42	43	82,5	30
8BSR23M3220	M32	17,0 - 20,5	23	20,5	11	42	43	82,5	30
8BSR29M3218	M32	14,0 - 18,0	29	28,0	11	42	43	82,5	20
8BSR29M3220	M32	17,0 - 20,5	29	28,0	11	42	43	82,5	20
8BSR29M3225	M32	20,0 - 25,0	29	28,0	11	42	43	82,5	20
8BSR29M3228	M32	24,0 - 28,0	29	28,0	11	42	43	82,5	20
8BSR36M4032	M40	27,0 - 32,0	36	36,0	14	55	54	95,0	20
8BSR36M4034	M40	29,0 - 34,0	36	36,0	14	55	54	95,0	20
8BSR36M4036	M40	32,0 - 36,0	36	36,0	14	55	54	95,0	20
8BSR36M5032	M50	27,0 - 32,0	36	36,0	14	55	54	90,0	20
8BSR36M5034	M50	29,0 - 34,0	36	36,0	14	55	54	90,0	20
8BSR36M5036	M50	32,0 - 36,0	36	36,0	14	55	54	90,0	20



SR

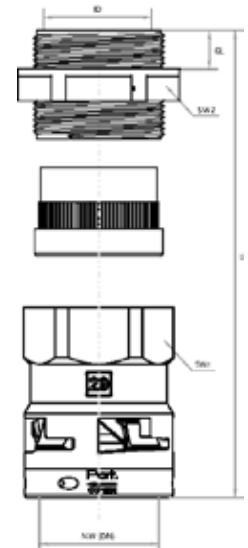


Ausführung construction	Zugentlastung, starres Außengewinde strain relief, rigid male thread
Werkstoff material	Polyamid 6 polyamide 6
Temperatur temperature	-40°C - +105°C kurzz. / short term +150°C
Schutzart protection	IP68 / IP69K
gemäß according to	IEC EN 61386
Passende Wellrohre suitable corrugated conduits	alle all



Gewindeart PG

Art. Nr. schwarz art. no. black	Gewinde thread	Klemmbereich mm	NW DN	ID mm	GL mm	SW1 mm	SW2 mm	L mm	VPE Stk. unit pcs.
8BSR07P0707	PG7	4,0 - 6,5	7	6,2	8,0	17	16	50,5	100
8BSR10P0707	PG7	4,0 - 6,5	10	6,2	8,0	17	16	51,9	50
8BSR10P0907	PG9	4,0 - 6,5	10	9,5	9,0	20	19	53,4	50
8BSR10P0908	PG9	5,0 - 8,0	10	9,5	9,0	20	19	53,4	50
8BSR10P0909	PG9	6,5 - 9,5	10	9,5	9,0	20	19	53,4	50
8BSR12P1107	PG11	4,0 - 6,5	12	10,5	9,0	24	22	57,2	50
8BSR12P1108	PG11	5,0 - 8,0	12	10,5	9,0	24	22	57,2	50
8BSR12P1109	PG11	6,5 - 9,5	12	10,5	9,0	24	22	57,2	50
8BSR12P1111	PG11	7,0 - 10,5	12	10,5	9,0	24	22	57,2	50
8BSR12P1307	PG13,5	4,0 - 6,5	12	13,0	9,0	26	24	57,1	50
8BSR12P1308	PG13,5	5,0 - 8,0	12	13,0	9,0	26	24	57,1	50
8BSR12P1309	PG13,5	6,5 - 9,5	12	13,0	9,0	26	24	57,1	50
8BSR12P1311	PG13,5	7,0 - 10,5	12	13,0	9,0	26	24	57,1	50
8BSR12P1313	PG13,5	9,0 - 13,0	12	13,0	9,0	26	24	57,1	50
8BSR17P1307	PG13,5	4,0 - 6,5	17	13,0	9,0	26	24	58,3	50
8BSR17P1308	PG13,5	5,0 - 8,0	17	13,0	9,0	26	24	58,3	50
8BSR17P1309	PG13,5	6,5 - 9,5	17	13,0	9,0	26	24	58,3	50
8BSR17P1311	PG13,5	7,0 - 10,5	17	13,0	9,0	26	24	58,3	50
8BSR17P1313	PG13,5	9,0 - 13,0	17	13,0	9,0	26	24	58,3	50
8BSR17P1607	PG16	4,0 - 6,5	17	15,5	9,5	27	27	57,8	50
8BSR17P1608	PG16	5,0 - 8,0	17	15,5	9,5	27	27	57,8	50
8BSR17P1609	PG16	6,5 - 9,5	17	15,5	9,5	27	27	57,8	50
8BSR17P1611	PG16	7,0 - 10,5	17	15,5	9,5	27	27	57,8	50
8BSR17P1613	PG16	9,0 - 13,0	17	15,5	9,5	27	27	57,8	50
8BSR17P1616	PG16	11,5 - 15,5	17	15,5	9,5	27	27	57,8	50
8BSR23P2111	PG21	7,0 - 10,5	23	20,5	11,0	34	33	74,0	30
8BSR23P2113	PG21	9,0 - 13,0	23	20,5	11,0	34	33	74,0	30
8BSR23P2116	PG21	11,5 - 15,5	23	20,5	11,0	34	33	74,0	30
8BSR23P2118	PG21	14,0 - 18,0	23	20,5	11,0	34	33	74,0	30
8BSR23P2120	PG21	17,0 - 20,5	23	20,5	11,0	34	33	74,0	30
8BSR23P2916	PG29	11,5 - 15,5	23	20,5	11,5	42	43	78,0	30
8BSR23P2918	PG29	14,0 - 18,0	23	20,5	11,5	42	43	78,0	30
8BSR23P2920	PG29	17,0 - 20,5	23	20,5	11,5	42	43	78,0	30
8BSR29P2918	PG29	14,0 - 18,0	29	28,0	11,5	42	43	78,0	20
8BSR29P2920	PG29	17,0 - 20,5	29	28,0	11,5	42	43	78,0	20
8BSR29P2925	PG29	20,0 - 25,0	29	28,0	11,5	42	43	78,0	20
8BSR29P2928	PG29	24,0 - 28,0	29	28,0	11,5	42	43	78,0	20
8BSR36P3632	PG36	27,0 - 32,0	36	36,0	14,0	55	54	90,0	20
8BSR36P3634	PG36	29,0 - 34,0	36	36,0	14,0	55	54	90,0	20
8BSR36P3636	PG36	32,0 - 36,0	36	36,0	14,0	55	54	90,0	20
8BSR48P4844	PG48	39,0 - 44,0	48	44,0	14,0	70	67	99,5	10



MSR

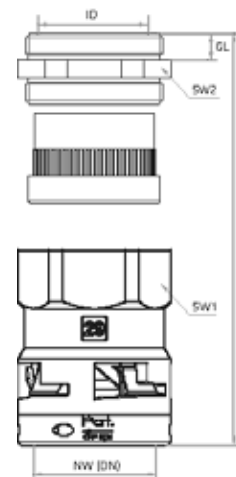


Ausführung construction	Zugentlastung, starres Außengewinde strain relief, rigid male thread	
Werkstoff material	Polyamid 6, Messing vernickelt polyamide 6 nickel-plated brass	
Temperatur temperature	-40°C - +105°C kurzz. / short term +150°C	
Schutzart protection	IP68 / IP69K	
gemäß according to	IEC EN 61386	
Passende Wellrohre suitable corrugated conduits	alle all	



Gewindeart metrisch

Art. Nr. schwarz art. no. black	Gewinde thread	Klemmbereich mm	NW DN	ID mm	GL mm	SW1 mm	SW2 mm	L mm	VPE Stk. unit pcs.
M8BSR07M1207	M12	4,0 - 6,5	7	7,0	5,0	17	15	46,5	50
M8BSR10M1607	M16	4,0 - 6,5	10	10,6	8,0	20	19	50,9	50
M8BSR10M1608	M16	5,0 - 8,0	10	10,6	8,0	20	19	50,9	50
M8BSR10M1609	M16	6,5 - 9,5	10	10,6	8,0	20	19	50,9	50
M8BSR12M1611	M16	7,0 - 10,5	12	10,6	6,0	24	20	53,1	50
M8BSR12M2007	M20	4,0 - 6,5	12	8,5	8,0	24	22	55,1	50
M8BSR12M2008	M20	5,0 - 8,0	12	13,0	8,0	24	22	55,1	50
M8BSR12M2009	M20	6,5 - 9,5	12	13,0	8,0	24	22	55,1	50
M8BSR12M2011	M20	7,0 - 10,5	12	13,0	8,0	24	22	55,1	50
M8BSR17M2007	M20	4,0 - 6,5	17	14,5	8,0	26	22	56,3	50
M8BSR17M2008	M20	5,0 - 8,0	17	14,5	8,0	26	22	56,3	50
M8BSR17M2009	M20	6,5 - 9,5	17	14,5	8,0	26	22	56,3	50
M8BSR17M2011	M20	7,0 - 10,5	17	14,5	8,0	26	22	56,3	50
M8BSR17M2013	M20	9,0 - 13,0	17	14,5	8,0	26	22	56,3	50
M8BSR17M2507	M25	4,0 - 6,5	17	16,0	9,0	27	28	57,3	50
M8BSR17M2508	M25	5,0 - 8,0	17	16,0	9,0	27	28	57,3	50
M8BSR17M2509	M25	6,5 - 9,5	17	16,0	9,0	27	28	57,3	50
M8BSR17M2511	M25	7,0 - 10,5	17	16,0	9,0	27	28	57,3	50
M8BSR17M2513	M25	9,0 - 13,0	17	16,0	9,0	27	28	57,3	50
M8BSR17M2516	M25	11,5 - 15,5	17	16,0	9,0	27	28	57,3	50
M8BSR23M2513	M25	9,0 - 13,0	23	20,5	9,0	34	30	70,5	30
M8BSR23M2516	M25	11,5 - 15,5	23	20,5	9,0	34	30	70,5	30
M8BSR23M2518	M25	14,0 - 18,0	23	20,5	9,0	34	30	70,5	30
M8BSR23M2520	M25	17,0 - 20,5	23	20,5	9,0	34	30	70,5	30
M8BSR23M3211	M32	7,0 - 10,5	23	22,0	10,0	34	35	71,5	30
M8BSR23M3213	M32	9,0 - 13,0	23	22,0	10,0	34	35	71,5	30
M8BSR23M3216	M32	11,5 - 15,5	23	22,0	10,0	34	35	71,5	30
M8BSR23M3218	M32	14,0 - 18,0	23	22,0	10,0	34	35	71,5	30
M8BSR23M3220	M32	17,0 - 20,5	23	22,0	10,0	34	35	71,5	30
M8BSR29M3225	M32	20,0 - 25,0	29	26,0	10,0	42	40	74,5	20
M8BSR29M4016	M40	11,5 - 15,5	29	29,0	10,0	42	42	73,5	20
M8BSR29M4018	M40	14,0 - 18,0	29	29,0	10,0	42	42	73,5	20
M8BSR29M4020	M40	17,0 - 20,5	29	29,0	10,0	42	42	73,5	20
M8BSR29M4025	M40	20,0 - 25,0	29	29,0	10,0	42	42	73,5	20
M8BSR29M4028	M40	24,0 - 28,0	29	29,0	10,0	42	42	73,5	20
M8BSR36M4032	M40	27,0 - 32,0	36	34,0	8,5	55	50	81,5	20
M8BSR36M4034	M40	29,0 - 34,0	36	34,0	8,5	55	50	81,5	20
M8BSR36M5032	M50	27,0 - 32,0	36	37,5	12,0	55	52	85,0	20
M8BSR36M5034	M50	29,0 - 34,0	36	37,5	12,0	55	52	85,0	20
M8BSR36M5036	M50	32,0 - 36,0	36	37,5	12,0	55	52	85,0	20
M8BSR48M6344	M63	39,0 - 44,0	48	47,0	10,0	70	64	93,5	10



MSR

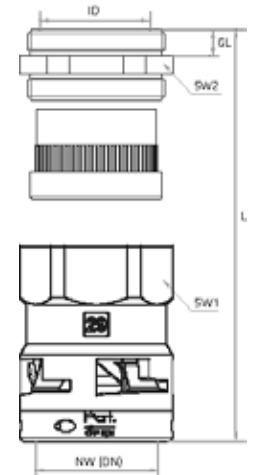


Ausführung construction	Zugentlastung, starres Außengewinde strain relief, rigid male thread
Werkstoff material	Polyamid 6, Messing vernickelt polyamide 6 nickel-plated brass
Temperatur temperature	-40°C - +105°C kurzz. / short term +150°C
Schutzart protection	IP68 / IP69K
gemäß according to	IEC EN 61386
Passende Wellrohre suitable corrugated conduits	alle all



Gewindeart PG

Art. Nr. schwarz art. no. black	Gewinde thread	Klemmbereich mm	NW DN	ID mm	GL mm	SW1 mm	SW2 mm	L mm	VPE Stk. unit pcs.
M8BSR07P0707	PG7	4,0 - 6,5	7	7,0	5,0	17	15	46,5	100
M8BSR10P0907	PG9	4,0 - 6,5	10	9,7	6,0	20	17	49,4	50
M8BSR10P0908	PG9	5,0 - 8,0	10	9,7	6,0	20	17	49,4	50
M8BSR10P0909	PG9	6,5 - 9,5	10	9,7	6,0	20	17	49,4	50
M8BSR12P1107	PG11	4,0 - 6,5	12	10,7	6,0	24	20	53,1	50
M8BSR12P1108	PG11	5,0 - 8,0	12	10,7	6,0	24	20	53,1	50
M8BSR12P1109	PG11	6,5 - 9,5	12	10,7	6,0	24	20	53,1	50
M8BSR12P1111	PG11	7,0 - 10,5	12	10,7	6,0	24	20	53,1	50
M8BSR17P1307	PG13,5	4,0 - 6,5	17	14,5	6,5	26	22	54,8	50
M8BSR17P1308	PG13,5	5,0 - 8,0	17	14,5	6,5	26	22	54,8	50
M8BSR17P1309	PG13,5	6,5 - 9,5	17	14,5	6,5	26	22	54,8	50
M8BSR17P1311	PG13,5	7,0 - 10,5	17	14,5	6,5	26	22	54,8	50
M8BSR17P1313	PG13,5	9,0 - 13,0	17	14,5	6,5	27	22	54,8	50
M8BSR17P1607	PG16	4,0 - 6,5	17	16,0	6,5	27	24	54,8	50
M8BSR17P1608	PG16	5,0 - 8,0	17	16,0	6,5	27	24	54,8	50
M8BSR17P1609	PG16	6,5 - 9,5	17	16,0	6,5	27	24	54,8	50
M8BSR17P1611	PG16	7,0 - 10,5	17	16,0	6,5	27	24	54,8	50
M8BSR17P1613	PG16	9,0 - 13,0	17	16,0	6,5	27	24	54,8	50
M8BSR17P1616	PG16	11,5 - 15,5	17	16,0	6,5	27	24	54,8	50
M8BSR23P2111	PG21	7,0 - 10,5	23	21,2	7,5	34	30	69,0	30
M8BSR23P2113	PG21	9,0 - 13,0	23	21,2	7,5	34	30	69,0	30
M8BSR23P2116	PG21	11,5 - 15,5	23	21,2	7,5	34	30	69,0	30
M8BSR23P2118	PG21	14,0 - 18,0	23	21,2	7,5	34	30	69,0	30
M8BSR23P2120	PG21	17,0 - 20,5	23	21,2	7,5	34	30	69,0	30
M8BSR29P2916	PG29	11,5 - 15,5	29	28,5	9,2	42	40	73,2	20
M8BSR29P2918	PG29	14,0 - 18,0	29	28,5	9,2	42	40	73,2	20
M8BSR29P2920	PG29	17,0 - 20,5	29	28,5	9,2	42	40	73,2	20
M8BSR29P2925	PG29	20,0 - 25,0	29	28,5	9,2	42	40	73,2	20
M8BSR29P2928	PG29	24,0 - 28,0	29	28,5	9,2	42	40	73,2	20
M8BSR36P3632	PG36	27,0 - 32,0	36	37,5	9,0	55	50	82,0	20
M8BSR36P3634	PG36	29,0 - 34,0	36	37,5	9,0	55	50	82,0	20
M8BSR36P3636	PG36	32,0 - 36,0	36	37,5	9,0	55	50	82,0	20
M8BSR48P4844	PG48	39,0 - 44,0	48	47,0	10,0	70	64	93,5	10



CSF - SFMIL



RINA

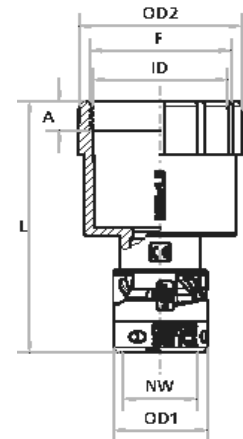


Ausführung construction	starres Innengewinde rigid female thread	
Werkstoff material	Polyamid 6, UL94 V0 polyamide 6, UL94 V0	
Temperatur temperature	-40°C - +105°C kurzz. / short term +150°C	
Schutzart protection	CSF: IP66 SFMIL: IP68 / IP69K	
gemäß according to	IEC EN 61386	
Passende Wellrohre suitable corrugated conduits	alle all	



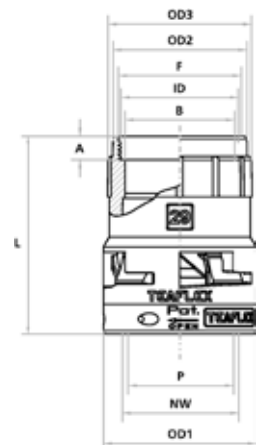
SENSOR

Art. Nr. art. No.	Gewinde thread	NW DN	ID mm	A mm	OD2 mm	L mm	VPE Stk. unit pcs.
6CSF07F08	M08x1	7	7	8	14	34	100
6CSF07F12	M12x1	7	11	6,5	17	52	100
6CSF07F18	M18x1	7	17	6,5	23	59	100
6CSF07F30	M30X1,5	7	28,5	6,5	35	55,5	100
6CSF10F12	M12x1	10	11	6,5	17	53,4	50
6CSF10F18	M18x1	10	17	6,5	23	60,4	50
6CSF10F30	M30X1,5	10	28,5	6,5	35	56,9	50



MIL

Art. Nr. schwarz art. no. black	Gewinde thread	NW DN	MIL DTL-5015	GL mm	L mm	VPE Stk. unit pcs.
8BSFMIL12U07	5/8"	24 UNEF	12	10	40,65	50
8BSFMIL12U11	7/8"	20 UNEF	12	16	41,65	50
8BSFMIL17U09	3/4"	20 UNEF	17	14	42,85	50
8BSFMIL17U11	7/8"	20 UNEF	17	16	42,85	50
8BSFMIL17U13	1"	20 UNEF	17	18	42,85	50
8BSFMIL17U16	1"3/16	18 UNEF	17	20/22	42,85	50
8BSFMIL23U16	1"3/16	18 UNEF	23	20/22	52	30
8BSFMIL23U20	1"7/16	18 UNEF	23	24/28	53	30
8BSFMIL23U25	1"3/4	18 UNS	23	32	53	30
8BSFMIL29U20	1"7/16	18 UNEF	29	24/28	54,5	20
8BSFMIL29U25	1"3/4	18 UNS	29	32	54	20
8BSFMIL36U20	1"7/16	18 UNEF	36	24/28	62,5	20
8BSFMIL36U25	1"3/4	18 UNS	36	32	62,5	20
8BSFMIL36U26	2"	18 UNS	36	36	63	20
8BSFMIL48U27	2"1/4	16 UN	48	40	70	10



SFB - SFA



Ausführung construction	starres Innengewinde rigid female thread	
Werkstoff material	Polyamid 6, UL94 V0 polyamide 6, UL94 V0	
Temperatur temperature	-40°C - +105°C kurzz. / short term +150°C	
Schutzart protection	IP68 / IP69K	
gemäß according to	IEC EN 61386	
Passende Wellrohre suitable corrugated conduits	alle all	



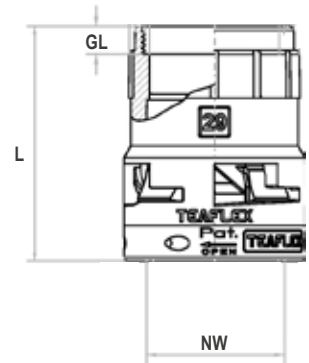
BURNDI-Adapter



AMPHENOL-Adapter

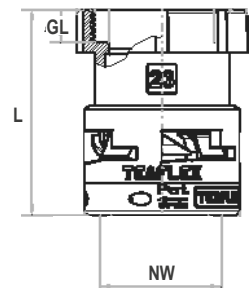
BURNDY

Art. Nr. art. no.	Gewinde thread	NW DN	Burndy mm	GL mm	L mm	VPE Stk. unit pcs.	
6BSFB12U10	13/16"	20 f	12	14-12	5	47,65	50
6BSFB17U12	15/16"	20 f	17	16-19	5	46,85	50
6BSFB17U16	1"3/16	18 f	17	20-28	7	47,35	50
6BSFB23U16	1"3/16	18 f	23	20-28	7	56	30
6BSFB23U20	1"7/16	18 f	23	24-48	7	58	30
6BSFB29U20	1"7/16	18 f	29	24-48	7	59	20



AMP

Art. Nr. art. no.	Gewinde thread	NW DN	AMP mm	GL mm	L mm	VPE Stk. unit pcs.	
6BSFA07U07	5/8"	24 f	7	11	8	35,5	100
6BSFA10U07	5/8"	24 f	10	11	8	36,4	50
6BSFA10U09	3/4"	20 f	1012	13	8	36,4	50
6BSFA12U07	5/8"	24 f	12	11	8	40,15	50
6BSFA12U09	3/4"	20 f	12	13	8	41,15	50
6BSFA12U12	15/16"	20 f	12	17	8	41,15	50
6BSFA17U09	3/4"	20 f	17	13	8	39,85	50
6BSFA17U12	15/16"	20 f	17	17	8	40,85	50
6BSFA17U19	1"3/8	18 f	17	23	8	42,35	50
6BSFA17U23	1"5/8	18 f	17	-	8	59,85	50
6BSFA23U19	1"3/8	18 f	23	23	8	50,5	30



SMEMC



RINA



Ausführung construction	EMV-Wellrohrverschraubung EMC conduit fitting	
Werkstoff material	Polyamid 6, UL94 V0 Messing vernickelt polyamide 6, UL 94 V0 nickel-plated brass	
Temperatur temperature	-40°C - +105°C kurzzeitig / short term +150°C	
Schutzart protection	IP68 / IP69K	
gemäß according to	IEC EN 61386	
Passende Wellrohre suitable corrugated conduits	alle all	

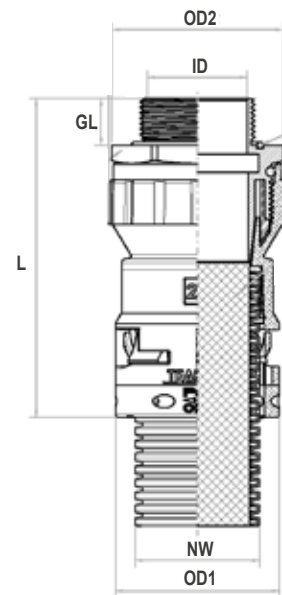


Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	NW DN	ID mm	GL mm	OD1 mm	OD2 mm	L mm	VPE Stk. unit pcs.
M8BSMEMC10M16	M16x1,5	10	10,0	10	20	24,5	61,4	10
M8BSMEMC12M16	M16x1,5	12	12,0	10	24	27	65,2	10
M8BSMEMC17M20	M20x1,5	17	16,2	10	30	31,5	69,4	10
M8BSMEMC23M25	M25x1,5	23	21,7	11	38	39,5	84,5	5
M8BSMEMC29M32	M32x1,5	29	29,1	13	45,5	47,5	88,5	5
M8BSMEMC36M40	M40x1,5	36	36,0	13	57	56,5	98,5	2
M8BSMEMC48M50	M50x1,5	48	47,8	14	68	72,5	106,5	2

Gewindeart PG

Art. Nr. art. no.	Gewinde thread	NW DN	ID mm	GL mm	OD1 mm	OD2 mm	L mm	VPE Stk. unit pcs.
M8BSMEMC10P09	9	10	10,0	10	20	24,5	61,4	10
M8BSMEMC12P11	11	12	12,0	10	24	27	65,2	10
M8BSMEMC17P13	13,5	17	16,2	10	30	31,5	69,4	10
M8BSMEMC17P16	16	17	16,4	10	30	31,5	69,4	10
M8BSMEMC23P21	21	23	21,7	11	38	39,5	84,5	5
M8BSMEMC29P29	29	29	29,1	13	45,5	50	88,5	5
M8BSMEMC36P36	36	36	36,0	13	57	56,5	98,5	2
M8BSMEMC48P48	48	48	47,8	14	68	72,5	106,5	2



JS-JE-JER



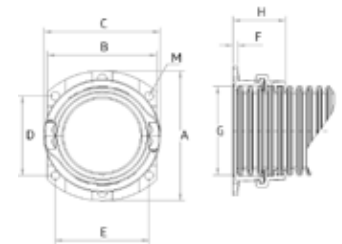
Ausführung construction	Jumbo-Flansch jumbo-flange
Werkstoff material	Polyamid 6, UL94 V0 polyamide 6, UL94 V0
Temperatur temperature	-40°C - +105°C kurzz. / short term +150°C
Schutzart protection	IP50 / 65
gemäß according to	IEC EN 61386
Passende Wellrohre suitable corrugated conduits	alle all



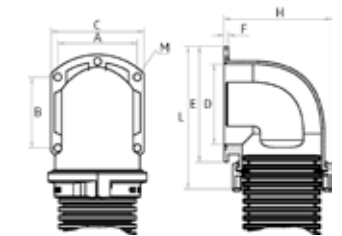
B... = Schwarz / black

G... = grau / grey

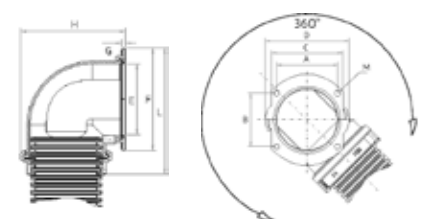
Art. Nr. JS art. no. JS RAL9005	Art. Nr. JS art. no. JS RAL7001	NW DN	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	M mm	VPE Stk. unit pcs.
BJS56	GJS56	56	98,0	80,0	85,0	60,0	68,5	3,5	62,0	38,0	6,0	5
BJS70	GJS70	70	111,0	94,5	99,4	60,0	80,0	4,0	75,5	43,0	6,0	5
BJS95	GJS95	95	145,0	123,5	129,0	74,0	108,0	5,0	102,0	48,5	6,0	2



Art. Nr. JE art. no. JE RAL9005	Art. Nr. JE art. no. JE RAL7001	NW DN	A mm	B mm	C mm	D mm	E mm	F mm	H mm	L mm	M mm	VPE Stk. unit pcs.
BJE56	GJE56	56	68,5	60,0	80,0	57,0	98,0	3,5	92,0	121,0	6,0	5
BJE70	GJE70	70	80,0	60,0	94,5	68,0	111,5	4,0	106,5	132,0	6,0	5
BJE95	GJE95	95	108,0	74,0	123,5	92,0	145,0	5,0	141,0	172,0	6,0	2



Art. Nr. JER art. no. JER RAL9005	Art. Nr. JER art. no. JER RAL7001	NW DN	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M mm	VPE Stk. unit pcs.
BJER56	GJER56	56	68,5	60,0	80,0	94,0	57,0	98,0	3,5	97,7	121,0	6,0	5
BJER70	GJER70	70	84,0	62,0	94,5	108,0	68,0	111,5	4,0	112,0	132,0	6,0	5
BJER95	GJER95	95	110,0	78,0	123,5	145,0	92,0	145,0	5,0	147,7	172,0	6,0	2



Jumbo-Dichtungen
Jumbo-gaskets

TYP ORJ - FLANSCHSEITIG
TYPE ORJ - FLANGE SIDED

TYP FSJ - ROHRSEITIG
TYPE FSJ - TUBE SIDED

Art. Nr. IP65 art. no. IP65	NW DN	IP	VPE Stk. unit pcs.
ORJ56	56	IP65	10
ORJ70	70	IP65	10

Art. Nr. IP65 art. no. IP65	NW DN	IP	VPE Stk. unit pcs.
FSJ56	56	IP65	10
FSJ70	70	IP65	10

LCOV



RINA



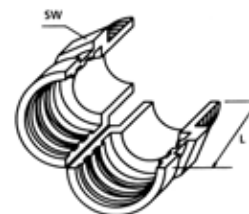
Ausführung construction	teilbar separable	
Werkstoff material	Polyamid 6 polyamide 6	
Temperatur temperature	-40°C - +120°C kurzz. / short term +140°C	
Schutzart protection	IP / 43	
gemäß according to	IEC EN 61386	
Passende Wellrohre suitable corrugated conduits	PADC / PPDC	

Teilbare Verschraubung und Gegenmutter PA6 mit Außengewinde
dividable fitting and locknut PA6 with male thread



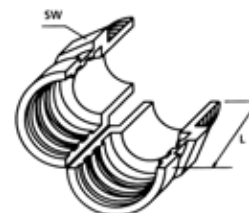
Verschraubung metrisch

Art. Nr. art. no.	Gewinde thread	NW DN	SW mm	L mm	VPE Stk. unit pcs.
LCOVM16	M16	10	19	34,0	100
LCOVM20	M20	14	27	41,0	100
LCOVM25	M25	20	30	43,0	50
LCOVM32	M32	23	36	50,5	50



Verschraubung PG

Art. Nr. art. no.	Gewinde thread	NW DN	SW mm	L mm	VPE Stk. unit pcs.
LCOVPG9	PG09	10	19	27,0	100
LCOVPG13	PG13,5	14	24	34,0	100
LCOVPG21	PG21	20	32	34,0	50
LCOVPG2923	PG29	23	41	42,0	50
LCOVPG2937	PG29	37	50	50,0	25



Gegenmutter

Art. Nr. art. no.	Gewinde thread	SW mm	VPE Stk. unit pcs.
LCOM16	M16	19	100
LCOM20	M20	27	100
LCOM25	M25	30	50
LCOM32	M32	36	50



Y-T



Ausführung construction	Y - T - Verbinder Y - T - connector	
Werkstoff material	Polyamid 6, UL94 V0 polyamide 6, UL94 V0	
Temperatur temperature	-40°C - +105°C	
Schutzart protection	IP66 / IP68 / IP69K	
gemäß according to	IEC EN 61386	
Passende Wellrohre suitable corrugated conduits	alle all	



Y-Verteiler
Y-connector

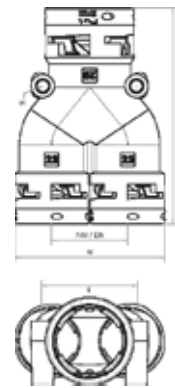


T-Verteiler
T-connector

6B... = schwarz / black

6G... = grau / grey

Art. Nr. IP66 art. no. IP66	Art. Nr. IP68/69K art. no. IP68/69K	NW DN	L mm	W mm	E mm	VPE Stk. unit pcs.
6*Y100707	8*Y100707	10-07-07	69,4	35,0	21,0	20
6*Y121010	8*Y121010	12-10-10	74,0	41,0	26,0	20
6*Y171212	8*Y171212	17-12-12	82,5	49,0	32,0	20
6*Y231717	8*Y231717	23-17-17	96,0	61,0	40,0	20
6*Y292323	8*Y292323	29-23-23	112,0	77,0	48,0	10
6*Y362929	8*Y362929	36-29-29	130,0	92,0	58,0	5
6*Y483636	8*Y483636	48-36-36	148,5	115,0	70,0	5



Art. Nr. IP66 art. no. IP66	Art. Nr. IP68/69K art. no. IP68/69K	NW DN	L mm	W mm	E mm	VPE Stk. unit pcs.
6*T101010	8*T101010	10-10-10	69,8	44,9	21,0	20
6*T121212	8*T121212	12-12-12	79,3	51,6	26,0	20
6*T171717	8*T171717	17-17-17	86,7	28,3	32,0	20
6*T232323	8*T232323	23-23-23	112,0	75,0	40,0	20
6*T292929	8*T292929	29-29-29	121,0	83,2	48,0	10
6*T363636	8*T363636	36-36-36	144,5	100,7	58,0	5
6*T484848	8*T484848	48-48-48	169,5	118,7	70,0	5



CS-AD



Ausführung construction	Verbinder / Reduzierung connector / reducer	
Werkstoff material	Polyamid 6, UL94 V0 polyamide 6, UL94 V0	
Temperatur temperature	-40°C - +105°C	
Schutzart protection	IP66 / IP68 / IP69K	
gemäß according to	IEC EN 61386	
Passende Wellrohre suitable corrugated conduits	alle all	

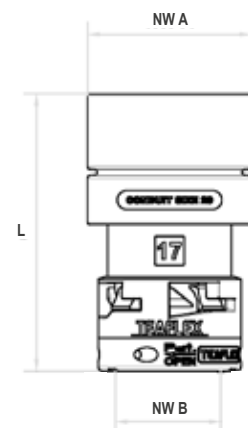
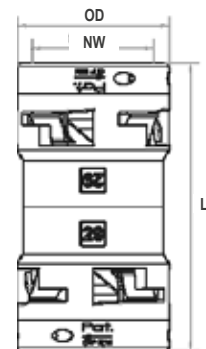
CS-Verbinders
CS-connectorAD-Adapter
AD-adaptor

Art. Nr. IP66 art. no. IP66	Art. Nr. IP68/69K art. no. IP68/69K	NW DN	L mm	OD mm	VPE Stk. unit pcs.
6*CS1717	8*CS1717	17-17	65,7	30,0	50
6*CS2323	8*CS2323	23-23	84,0	38,0	30
6*CS2929	8*CS2929	29-29	86,0	45,5	20
6*CS3636	8*CS3636	36-36	102,0	57,0	20
6*CS4848	8*CS4848	48-48	115,0	68,0	10

Art. Nr. IP66 art. no. IP66	Art. Nr. IP68/69K art. no. IP68/69K	NW A DN A	NW B DN B	L mm	VPE Stk. unit pcs.
6BAD1007	8BAD1007	10	7	49,5	50
6BAD1210	8BAD1210	12	10	54,5	50
6BAD1710	8BAD1710	17	10	50,5	50
6BAD2310	8BAD2310	23	10	54,5	30
6BAD2910	8BAD2910	29	10	54,0	20
6BAD1712	8BAD1712	17	12	53,5	50
6BAD2312	8BAD2312	23	12	57,5	30
6BAD2912	8BAD2912	29	12	57,0	20
6BAD2317	8BAD2317	23	17	59,0	30
6BAD2917	8BAD2917	29	17	58,5	20
6BAD2923	8BAD2923	29	23	67,5	20
6BAD3623	8BAD3623	36	23	74,0	20
6BAD3629	8BAD3629	36	29	75,0	20
6BAD4829	8BAD4829	48	29	78,0	10
6BAD4836	8BAD4836	48	36	86,0	10

6B... = schwarz / black

6G... = grau / grey



SC-SR-BC



Ausführung construction	Wellrohrhalter tube clamp	
Werkstoff material	Polyamid 6, UL94 V0 polyamide 6, UL94 V0	
Temperatur temperature	-40°C - +105°C	
Schutzart protection	-	
gemäß according to	-	
Passende Wellrohre suitable corrugated conduits	alle all	

SC-Halter
SC-clamp



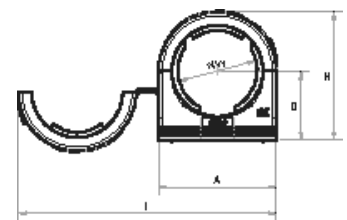
BC-Halter
BC-clamp



SR-Montageschiene für Halter SC
SR-mounting rail for clamp SC

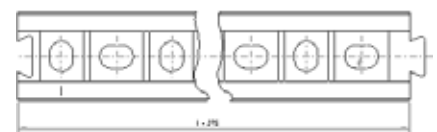


Art. Nr. grau art. no. grey	Art. Nr. schwarz art. no. black	NW DN	A mm	D mm	H mm	L mm	VPE Stk. unit pcs.
GSC07	BSC07	7	17,0	13,1	21,8	40	100
GSC10	BSC10	10	21,0	15,0	25,7	48	100
GSC12	BSC12	12	24,0	16,4	28,6	54	100
GSC17	BSC17	17	30,0	19,7	34,9	68	100
GSC23	BSC23	23	38,0	23,3	42,5	84	100
GSC29	BSC29	29	45,0	26,4	49,0	98	50
GSC36	BSC36	36	55,0	30,2	58,0	118	50
GSC48	BSC48	48	67,5	36,3	70,3	143	30

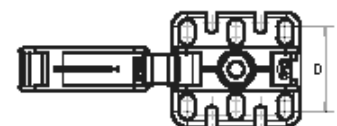
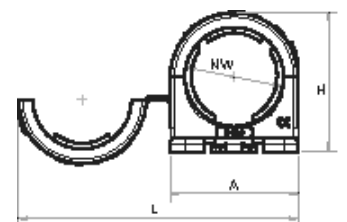


Art. Nr. grau art. no. grey	NW DN	L mm	VPE Stk. unit pcs.
SR	7 - 48	275	10

Art. Nr. grau art. no. grey	VPE Stk. unit pcs.
LK	20



Art. Nr. grau art. no. grey	Art. Nr. schwarz art. no. black	NW DN	A mm	D mm	H mm	L mm	VPE Stk. unit pcs.
GBC17	BBC17	17	37,5	27,0	35,0	71,8	100
GBC23	BBC23	23	38	28,5	42,5	84,0	50
GBC29	BBC29	29	45	29,5	49,0	98,5	50
GBC36	BBC36	36	55	49,5	58,0	118,0	30
GBC48	BBC48	48	67,5	49,5	70,0	143,0	30



SWC - HSB



RINA



Ausführung construction	Wellrohrhalter tube clamp	
Werkstoff material	Polyamid 6, UL94 V0 polyamide 6, UL94 V0	
Temperatur temperature	-40°C - +105°C	
Schutzart protection	-	
gemäß according to	-	
Passende Wellrohre suitable corrugated conduits	alle all	

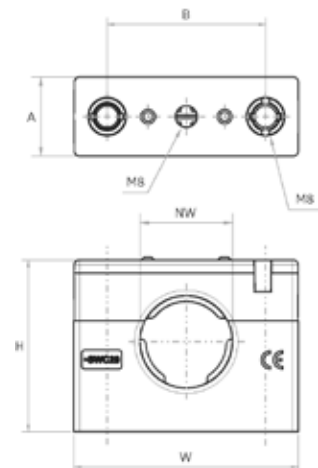


SWC

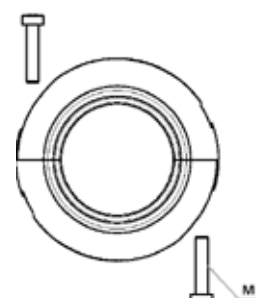
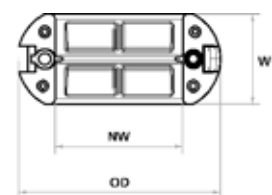


HSB

Art. Nr. schwarz art. no. black	NW DN	A mm	B mm	H mm	W mm	VPE Stk. unit pcs.
BSWC17	17	30	45	50	70	30
BSWC23	23	30	45	50	70	30
BSWC29	29	30	60	65	85	20
BSWC36	36	30	60	65	85	20
BSWC48	48	30	90	92	115	10
BSWC56	56	30	90	92	115	10

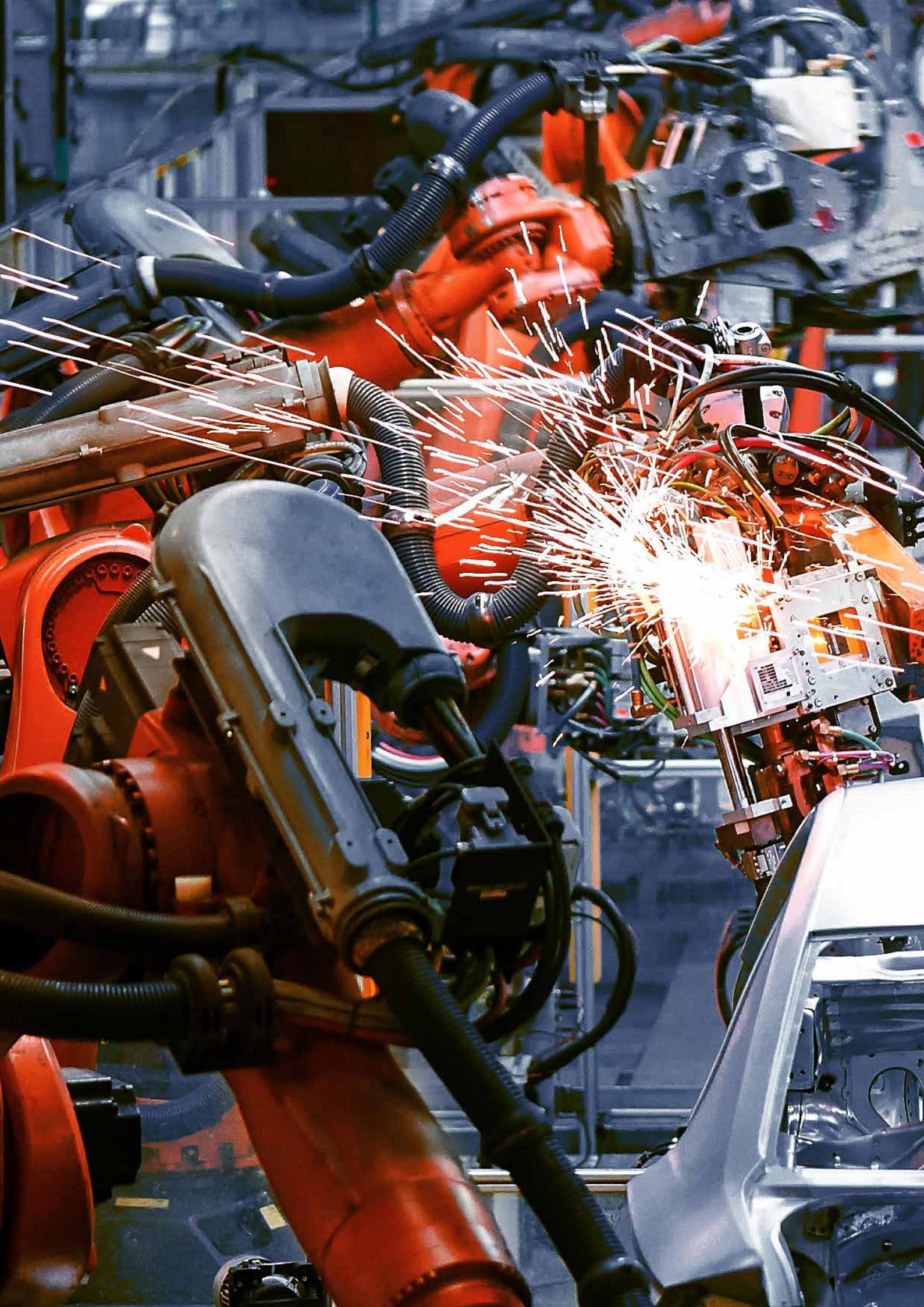


Art. Nr. schwarz art. no. black	NW DN	Schlauchprofil conduit profile	OD mm	W mm	M mm	VPE Stk. unit pcs.
BHSB17	17	parallel gewellt - corrugated	44	22	3,5x18	50
BHSB23	23	parallel gewellt - corrugated	50	25	3,5x18	30
BHSB29	29	parallel gewellt - corrugated	56	25	3,5x18	20
BHSB36	36	parallel gewellt - corrugated	69	30	3,5x18	20
BHSB36B	36	umflochten - braided	69	30	3,5x18	20
BHSB48	48	parallel gewellt - corrugated	78	30	3,5x18	10
BHSB56	56	parallel gewellt - corrugated	100	52	3,5x18	5
BHSB70	70	parallel gewellt - corrugated	114	60	3,5x18	5



Größen 56 und 70 können als Wellrohrverbinder verwendet werden, ohne dass der Nutzdurchlass des Wellrohrs verringert wird.

Sizes 56 and 70 can be used as connectors for corrugated conduits without loss of usable cross section.



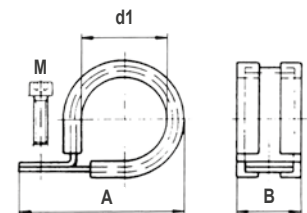
MGC-UMGC



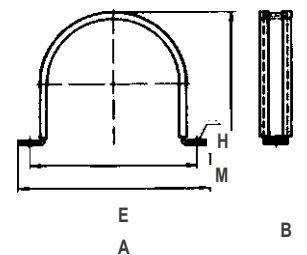
Ausführung construction	Schlauchhalter tube clamps	
Werkstoff material	Stahl verzinkt Elastomer galvanised steel elastomer	
Temperatur temperature	-50°C - +105°C kurzzeitig./ short term +150°C	
Schutzart protection	-	
gemäß according to	-	
Passende Wellrohre suitable corrugated conduits	alle all	



Art. Nr. schwarz art. no. black	NW DN	A mm	B mm	d1 mm	M mm	VPE Stk. unit pcs.
MGC07	07	25	13,0	9,0	4	100
MGC10	10	26	13,0	12,0	4	100
MGC12	12	31	13,0	14,0	4	100
MGC14	14	34	15,0	17,5	4	50
MGC17	17	40	17,0	20,0	5	100
MGC20	20	42	16,5	21,0	5	50
MGC23	23	47	17,0	26,0	5	50
MGC24	24	50	16,5	26,0	5	50
MGC29	29	65	21,0	32,0	6	30
MGC36	36	70	21,0	40,0	6	20
MGC48	48	87	21,0	52,0	6	20



Art. Nr. schwarz art. no. black	NW DN	A mm	B mm	H mm	E mm	M mm	VPE Stk. unit pcs.
UMGC36	36	80	19	48	65	2 x 6	20
UMGC48	48	94	19	58	78	2 x 6	20
UMGC56	56	118	24	72	98	2 x 8	10
UMGC70	70	130	24	85	110	2 x 8	10
UMGC95	95	156	24	110	136	2 x 8	10
UMGC125	125	200	24	152	180	2 x 8	10



PC - CTS



Ausführung construction	Verbinder / Endkappe connector / sleeve	
Werkstoff material	Polyamid 6, UL94 V0 polyamide 6, UL94 V0	
Temperatur temperature	-40°C - +105°C	
Schutzart protection	IP66 / IP68 / IP69K	
gemäß according to	IEC EN 61386	
Passende Wellrohre suitable corrugated conduits	alle all	



CTS-Endtülle
CTS-end sleeve

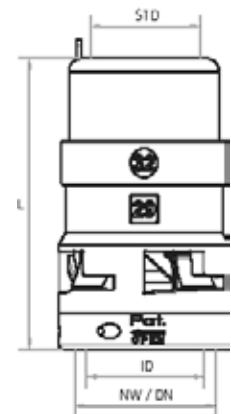


PC-Verbinder
PC-connector

8B... = schwarz / black

8G... = grau / grey

Art. Nr. IP68/69K art. no. IP68/69K	NW DN	Rohr STD pipe STD	ID mm	L mm	VPE Stk. unit pcs.
8*PC1216	12	16	14,0	60,6	50
8*PC1720	17	20	18,0	61,8	50
8*PC2325	23	25	22,5	72,0	30
8*PC2932	29	32	29,5	72,5	20
8*PC3640	36	40	37,5	86,0	20
8*PC4850	48	50	47,5	92,5	10



Art. Nr. schwarz art. no. black	NW DN	ID mm	L mm	VPE Stk. unit pcs.
BCTS07	7	4,0	15,4	100
BCTS10	10	6,9	15,4	100
BCTS12	12	9,5	18,4	100
BCTS17	17	12,9	20,4	100
BCTS23	23	19,2	21,4	50
BCTS29	29	24,7	22,4	50
BCTS36	36	32,8	24,4	30
BCTS48	48	44,3	25,4	20
BCTS56	56	53,5	26,4	10



TYP / TYPE	GF	GFT	GP	GL	GL18
Seite / page	Seite 90	Seite 90	Seite 91	Seite 92	Seite 93
PRODUKT-EIGENSCHAFTEN PRODUCT FEATURES	PVC-Schutzschlauch, INNEN UND AUSSEN GLATT , flexibel und leicht, ideal für statische Anwendungen ohne Druckbeanspruchung.	PVC-Schutzschlauch, innen glatt, mit VERZINKTEM STAHLGEFLECHT , flexibel, ideal für Anwendungen mit mechanischer Beanspruchung.	PVC-Schutzschlauch, innen und außen glatt, mit EINGEBETTETER PVC-SPIRALE , flexibel, gute Scheiteldruckfestigkeit, Knickschutz.	PVC-Schutzschlauch, innen glatt, mit EINGEBETTETER PVC-SPIRALE , flexibel und leicht, gute Scheiteldruckfestigkeit, Knickschutz.	PVC-Schutzschlauch, innen glatt, mit EINGEBETTETER PVC-SPIRALE , flexibel und leicht, gute Scheiteldruckfestigkeit, Knickschutz.
MATERIAL	PVC	PVC / Stahl verzinkt PVC / galvanised steel	PVC	PVC	PVC
GRÖSSEN - NW SIZES - DN	10 - 58	10 - 58	10 - 50	8 - 60	10 - 50
TEMPERATUR TEMPERATURE	-15°C - +70°C	-15°C - +70°C	-6°C - +60°C	-6°C - +60°C	-10°C - +60°C
BRENNBARKEIT FLAMMABILITY	UL94 V0	UL94 V0	UL94 V0	UL94 V0	-
SCHUTZART PROTECTION	IP 68	IP 68	IP 68	IP 68	IP 68
GEMÄSS ACCORDING TO	IEC EN 61386	IEC EN 61386	IEC EN 61386	IEC EN 61386	IEC EN 61386
ZULASSUNGEN & ATTRIBUTE CERTIFICATION & PROPERTIES					

**PASSENDEN
VERSCHRAUBUNGEN UND
ZUBEHÖR****SUITABLE
FITTINGS AND
ACCESSORIES**

Seite/page 100

**UNI-VS**
universal

Seite/page 101

**GLM**
universal
drehbar/swivell

Seite/page 102

**VS1202**
drehbar
swivelling

Seite/page 183

**VS1205**
drehbar
swivelling

Seite/page 184

**GMF**
Außengew.
male thread



GLD12

Seite 94

PVC-Schutzschlauch, innen glatt, mit **EINGEBETTETER STAHL-SPIRALE**, flexibel und leicht, hohe Scheiteldruckfestigkeit, Knickschutz.

Protective **PVC-conduit**, smooth inside, with **EMBEDDED STEEL-SPIRAL**, flexible and light, good compressive strength, bend protection.

PVC / Stahl
PVC / steel

7 - 48

-20°C - +70°C

-

IP 68

IEC EN 61386



PAHB

Seite 95

Geflechtschlauch aus Polyamid, leicht, flexibel, reifest, abriebfest, weit aufdehnbar, sehr temperaturbeständig.

Plastic braid made of polyamide, light, flexible, tear-resistant, abrasion resistant, to be widened greatly, wide temperature range.

Polyamid 6
polyamide 6

5 - 70

-55°C - +125°C

UL94 V2

-

IEC EN 61386



TRCU

Seite 96

Geflechtschlauch aus verzinnem Kupfer, geeignet für den Einsatz in Bereichen mit **EMV-** und **EX-**Anforderungen.

Braid made of tinned copper, suitable for applications in areas with **EMC-** and **EX-**requirements.

Kupfer verzinkt
tinned copper

6 - 50

-65°C - +150°C

-

-

IEC EN 61386



SPIRALFLEX

Seite 97

Spiralschlauch / Wickelschlauch aus Polyethylen, einfacher und robuster Schutz, **ZUM BÜNDELN** von Kabeln und Leitungen.

Plastic spiral tape made of polyethylene, simple and robust protection, **FOR BUNDLING** of cables and conductors.

Polyethylen
polyethylene

2 - 150

-50°C - +90°C
kurzz. +100°C

UL94 HB

-

IEC EN 61386



SCS

Seite 98

HITZESCHUTZSCHLAUCH aus Glasfaser und Silikongummi, Schutz vor hoher Strahlungswärme oder gegen flüssige Metallspritzer, sehr flexibel, wasserdicht, abriebfest.

HIGH TEMPERATURE CONDUIT made of fibre glass and silicone rubber, protection against radiant heat or against splashes of molten metal, very flexible, watertight, abrasion resistant.

Glasfaser/Silikongummi
fibre glass/silicone rubber

0,5 - 45

-60°C - +250°C
kurzz./short term +290°C

HL2 / R22-R23
1,5 - 20 KV

IP 68

IEC EN 61386



HJT

Seite 99

HITZESCHUTZSCHLAUCH aus Glasfaser und Silikongummi, Schutz vor hoher Strahlungswärme oder gegen flüssige Metallspritzer, sehr flexibel, wasserdicht, abriebfest.

HIGH TEMPERATURE CONDUIT made of fibre glass and silicone rubber, protection against radiant heat or against splashes of molten metal, very flexible, watertight, abrasion resistant.

Glasfaser/Silikongummi
fibre glass/silicone rubber

10 - 100

-60°C - +300°C
kurzz./short term +800°C

UL94 V0

IP 68

IEC EN 61386



Seite/page 105



GFM
Auengew.
male thread

Seite/page a.A.



GFF
Innengewinde
female thread

Seite/page 149



AP
Ring

Seite/page 149



FAN
Chromstahl
chromium steel

Seite/page 149



LSGS
Chromstahl
chromium steel

Seite/page 149



FAVT
Erdung
earthing

GF - GFT



Ausführung construction	Schutzschlauch, flexibel, innen und außen glatt (GF), Stahlgeflecht (GFT) protective conduit, flexible, smooth inside and outside (GF), steel braid (GFT)	
Werkstoff material	PVC (UL94 V0) Stahl verzinkt (GFT) PVC (UL94 V0) galvanised steel (GFT)	
Temperatur temperature	-15°C - +70°C	
Schutzart protection	IP68	
gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	UNI-VS	100
	GLM	101
Seite page	GFM	105
	GFMF	104

Dickwandiger PVC-Schlauch, innen und außen glatt

Thick walled PVC-conduit, smooth inside and outside

Typ / type GF



Typ / type GFT

Eigenschaften
properties

flexibel - zugfest - geringe Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - flammwidrig
benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei - robust
flexible - stretch resistant - low compressive strength - liquid tight - self extinguishing - UV-resistant - flame retardant
petrol resistant - oil resistant - acid resistant - free of silicone and cadmium - robust

Anwendungen
application

Maschinenbau
machine-building ✓

Elektroinstallation
electro-installation ✓

Fahrzeugbau
automotive ✓

EMV-Anwendungen
EMC-application ✓

Automation
automation ✓

Bahn
railway ✓

Schiffsbau
shipbuilding ✓

EX-Anwendungen
EX-application ✓

Art. Nr. schwarz art. no. black RAL9011	Art. Nr. grau art. no. grey RAL7001	Art. Nr. blau art. no. blue RAL5015	NW DN	ID mm	AD mm OD mm	VPE unit
GF10N	GF10G	GF10B	10	10,0	14,0	50m
GF12N	GF12G	GF12B	12	12,0	16,0	50m
GF15N	GF15G	GF15B	15	15,0	20,5	50m
GF20N	GF20G	GF20B	20	20,0	26,0	50m
GF27N	GF27G	GF27B	27	27,0	34,0	25m
GF36N	GF36G	GF36B	36	36,0	43,0	25m
GF40N	GF40G	GF40B	40	40,0	48,0	25m
GF47N	GF47G	GF47B	47	47,0	55,0	25m
-	-	GF58B	58	58,0	68,0	25m

Art. Nr. art. no.	NW DN	ID mm	AD mm OD mm	VPE unit
GFT10	10	10,0	15,0	50m
GFT12	12	12,0	17,0	50m
GFT15	15	15,0	21,0	50m
GFT20	20	20,0	27,0	50m
GFT27	27	27,0	35,0	25m
GFT36	36	36,0	45,0	25m
GFT40	40	40,0	50,0	25m
GFT47	47	47,0	57,0	25m
GFT58	58	58,0	70,0	25m

EMV-Anwendungen
EMC-application

GP



Ausführung construction	Schutzschlauch, flexibel, innen und außen glatt, eingebettete PVC-Spirale protective conduit, flexible, smooth inside and outside, embedded PVC-spiral	
Werkstoff material	PVC (UL94 V0)	
Temperatur temperature	-6°C - +60°C	
Schutzart protection	IP68	
gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	UNI-VS	100
Seite page	GLM	101
	GFM	105
	GFMF	104

Dickwandiger PVC-Schlauch mit eingebetteter PVC-Spirale
thick walled PVC-conduit with embedded PVC-spiral



Eigenschaften
properties

flexibel - zugfest - gute Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - flammwidrig
benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei - robust
flexible - stretch resistant - good compressive strenght - liquid tight - self extinguishing - UV-resistant - flame retardant
petrol resistant - oil resistant - acid resistant - free of silicone and cadmium - robust

Anwendungen
application

Maschinenbau
machine-building ✓
Automation
automation ✓

Elektroinstallation
electro-installation ✓
Bahn
railway

Fahrzeugbau
automotive
Schiffsbau
shipbuilding ✓

EMV-Anwendungen
EMC-application
EX-Anwendungen
EX-application

Art. Nr. schwarz art. no. black RAL9011	Art. Nr. grau art. no. grey RAL 7001	Art. Nr. lichtgrau art. no. light grey RAL 7035	NW DN	ID mm	AD mm OD mm	VPE unit
GP10N	GP10	GP10G	10	10,0	14,0	30m
GP12N	GP12	GP12G	12	12,0	16,0	30m
GP14N	GP14	GP14G	14	14,0	18,6	30m
GP16N	GP16	GP16G	16	16,0	20,6	30m
GP20N	GP20	GP20G	20	20,0	25,0	30m
GP22N	GP22	GP22G	22	22,0	27,2	30m
GP25N	GP25	GP25G	25	25,0	30,2	30m
GP28N	GP28	GP28G	28	28,0	33,5	30m
GP35N	GP35	GP35G	35	35,0	41,3	30m
GP40N	GP40	GP40G	40	40,0	46,0	30m
GP50N	GP50	GP50G	50	50,0	56,2	30m

GL



Ausführung construction	Schutzschlauch, flexibel, leicht, innen glatt, eingebettete PVC-Spirale protective conduit, flexible, light, smooth inside, embedded PVC-spiral	
Werkstoff material	PVC (UL94 V0)	
Temperatur temperature	-6°C - +60°C	
Schutzart protection	IP68	
gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings Seite page	UNI-VS GLM	100 101

PVC-Schlauch mit eingebetteter PVC-Spirale
PVC-conduit with embedded PVC-spiral



Eigenschaften properties

flexibel - zugfest - gute Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - flammwidrig
benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei - leicht
flexible - stretch resistant - good compressive strength - liquid tight - self extinguishing - UV-resistant - flame retardant
petrol resistant - oil resistant - acid resistant - free of silicone and cadmium - light

Anwendungen application

Maschinenbau
machine-building ✓
Automation
automation ✓

Elektroinstallation
electro-installation ✓
Bahn
railway

Fahrzeugbau
automotive ✓
Schiffsbau
shipbuilding ✓

EMV-Anwendungen
EMC-application
EX-Anwendungen
EX-application

Art. Nr. schwarz art. no. black RAL9011	Art. Nr. lichtgrau art. no. light grey RAL 7035	NW DN	ID mm	AD mm OD mm	VPE unit
GL08N	GL08G	8	8,0	12,1	30m
GL10N	GL10G	10	10,0	14,7	30m
GL12N	GL12G	12	12,0	16,4	30m
GL14N	GL14G	14	14,0	18,9	30m
GL16N	GL16G	16	16,0	20,7	30m
GL18N	GL18G	18	18,0	22,7	30m
GL20N	GL20G	20	20,0	24,7	30m
GL22N	GL22G	22	22,0	27,7	30m
GL25N	GL25G	25	25,0	30,6	30m
GL28N	GL28G	28	28,0	33,5	30m
GL32N	GL32G	32	32,0	38,0	30m
GL35N	GL35G	35	35,0	41,0	30m
GL40N	GL40G	40	40,0	46,4	30m
GL50N	GL50G	50	50,0	57,2	30m
GL60N	GL60G	60	60,0	68,0	30m



GL18

Ausführung construction	Schutzschlauch, flexibel, leicht, innen glatt, eingebettete PVC-Spirale protective conduit, flexible, light, smooth inside, embedded PVC-spiral	
Werkstoff material	PVC	
Temperatur temperature	-10°C - +60°C	
Schutzart protection	IP68	
gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	UNI-VS	100
Seite page	GLM	101
	VS1202N	102
	VS1205N	103

PVC-Schlauch mit eingebetteter PVC-Spirale
PVC-conduit with embedded PVC-spiral



Eigenschaften
properties

flexibel - zugfest - gute Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - flammwidrig
benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei - leicht
flexible - stretch resistant - good compressive strength - liquid tight - self extinguishing - UV-resistant - flame retardant
petrol resistant - oil resistant - acid resistant - free of silicone and cadmium - light

Anwendungen
application

Maschinenbau
machine-building ✓
Automation
automation ✓

Elektroinstallation
electro-installation ✓
Bahn
railway

Fahrzeugbau
automotive ✓
Schiffsbau
shipbuilding ✓

EMV-Anwendungen
EMC-application
EX-Anwendungen
EX-application

Art. Nr. grau
art. no. grey
RAL 7001

	NW DN	ID mm	AD mm OD mm	VPE unit
GL1810G	10	10,0	14,0	50m
GL1813G	13	13,0	17,0	50m
GL1815G	15	15,0	19,4	50m
GL1816G	16	16,0	20,0	50m
GL1819G	19	19,0	23,0	50m
GL1820G	20	20,0	24,0	50m
GL1822G	22	22,0	27,0	50m
GL1825G	25	25,0	30,0	50m
GL1830G	30	30,0	35,0	25m
GL1832G	32	32,0	37,0	25m
GL1835G	35	35,0	40,0	25m
GL1838G	38	38,0	43,0	25m
GL1840G	40	40,0	45,0	25m
GL1845G	45	45,0	50,0	25m
GL1850G	50	50,0	55,0	25m

GLD12



Ausführung construction	Schutzschlauch, flexibel, leicht, innen glatt, eingebettete Stahlschnecke protective conduit, flexible, light, smooth inside, embedded steel spiral	
Werkstoff material	PVC / Stahl PVC / steel	
Temperatur temperature	-20°C - +70°C	
Schutzart protection	IP68	
gemäß according to	IEC EN 61386	
Passende Verschraubungen suitable fittings	UNI-VS	100
Seite page	GLM	101
	GFM	105
	GFMF	104

PVC-Schlauch mit eingebetteter Stahlschnecke
PVC-conduit with embedded steel spiral


Eigenschaften
properties

flexibel - zugfest - gute Scheiteldruckfestigkeit - flüssigkeitsdicht - selbstverlöschend - UV-beständig - flammwidrig
benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei - leicht
flexible - stretch resistant - good compressive strength - liquid tight - self extinguishing - UV-resistant - flame retardant
petrol resistant - oil resistant - acid resistant - free of silicone and cadmium - light

Anwendungen
application

Maschinenbau
machine-building ✓
Automation
automation ✓

Elektroinstallation
electro-installation ✓
Bahn
railway

Fahrzeugbau
automotive ✓
Schiffsbau
shipbuilding ✓

EMV-Anwendungen
EMC-application
EX-Anwendungen
EX-application

Art. Nr. grau
art. no. grey
RAL 7001

	NW DN	ID mm	AD mm OD mm	VPE unit
GLD1207G / -10	7	7,0	10,0	50m / 10m
GLD1210G / -10	10	10,0	14,0	50m / 10m
GLD1213G / -10	13	13,0	17,0	50m / 10m
GLD1215G / -10	15	15,0	19,0	50m / 10m
GLD1216G / -10	16	16,0	21,0	50m / 10m
GLD1221G / -10	21	21,0	27,0	50m / 10m
GLD1230G / -10	30	30,0	36,0	25m / 10m
GLD1238G / -10	38	38,0	45,0	25m / 10m
GLD1244G / -10	44	44,0	52,0	25m / 10m
GLD1248G / -10	48	48,0	56,0	25m / 10m



PAHB

Ausführung construction	Geflecht braid
Werkstoff material	Polyamid PA6 polyamide PA6
Temperatur temperature	-55°C - +125°C
Schutzart protection	-
gemäß according to	IEC EN 61386

Geflecht aus reißfestem Polyamid
braid made of polyamide



Eigenschaften
properties

flexibel - zugfest - selbstverlöschend - UV-beständig - flammwidrig - benzinbeständig - gute Ölbeständigkeit
gute Säurebeständigkeit - silikon- und cadmiumfrei
flexible - stretch resistant - self extinguishing - UV-resistant - flame retardant - petrol resistant - oil resistant
acid resistant - free of silicone and cadmium

Anwendungen
application

Maschinenbau
machine-building ✓
Automation
automation ✓

Elektroinstallation
electro-installation ✓
Bahn
railway ✓

Fahrzeugbau
automotive ✓
Schiffsbau
shipbuilding ✓

EMV-Anwendungen
EMC-application
EX-Anwendungen
EX-application

Art. Nr. schwarz art. no. black	Art. Nr. grau art. no. grey	NW DN	Anwendungsbereich application range		VPE unit
			min.	max.	
PAHB05N	PAHB05G	5	4 mm	10 mm	100m
PAHB08N	PAHB08G	8	6 mm	11 mm	100m
PAHB10N	PAHB10G	10	8 mm	14 mm	100m
PAHB12N	PAHB12G	12	10 mm	16 mm	100m
PAHB14N	PAHB14G	14	10 mm	22 mm	100m
PAHB16N	PAHB16G	16	14 mm	24 mm	100m
PAHB18N	PAHB18G	18	16 mm	24 mm	100m
PAHB20N	PAHB20G	20	18 mm	25 mm	100m
PAHB25N	PAHB25G	25	18 mm	33 mm	100m
PAHB30N	PAHB30G	30	28 mm	40 mm	100m
PAHB40N	PAHB40G	40	28 mm	42 mm	50m
PAHB50N	PAHB50G	50	35 mm	80 mm	50m
PAHB65N	PAHB65G	65	40 mm	86 mm	50m
PAHB70N	PAHB70G	70	45 mm	87 mm	50m

TRCU



Ausführung construction	Geflechtschlauch braided hose
Werkstoff material	Kupfer verzinkt tinned copper
Temperatur temperature	-65°C - +150°C
Gemäß according to	IEC EN 61386

Kupfergeflecht
copper braidEigenschaften
properties

zugfest - in EX-Bereichen einsetzbar - für EMV-Anwendungen geeignet
stretch resistant - to be used in EX-areas - for EMC-applications

Anwendungen
application

Maschinenbau
machine-building ✓

Elektroinstallation
electro-installation ✓

Fahrzeugbau
automotive ✓

EMV-Anwendungen
EMC-application ✓

Automation
automation ✓

Bahn
railway ✓

Schiffsbau
shipbuilding ✓

EX-Anwendungen
EX-application ✓

Art. Nr.
art. no.NW
DNmin-max
mmVPE
unit

TR06CU	6	4,5 - 7,0	100 m
TR10CU	10	7,0 - 12,0	100 m
TR12CU	12,5	10,0 - 15,0	50 m
TR16CU	15	13,0 - 18,0	50 m
TR20CU	20	16,0 - 25,0	50 m
TR25CU	25	22,0 - 30,0	50 m
TR30CU	30	27,0 - 35,0	25 m
TR35CU	35	30,0 - 38,0	25 m
TR40CU	40	35,0 - 44,0	25 m
TR50CU	50	45,0 - 55,0	25 m

SPIRALFLEX



Ausführung construction	Wickelschlauch, Spiralschlauch plastic tape
Werkstoff material	Polyethylen (PE) polyethylene (PE)
Temperatur temperature	-50°C - +90°C kurzz. / short term +100°C
Gemäß according to	IEC EN 61386

Wickelband aus Polyethylen
spiral tape made of polyethylene



Eigenschaften
properties

flexibel - mechanisch beanspruchbar - zur nachträglichen Installation - selbstverlöschend - UV-beständig - flammwidrig
benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - silikon- und cadmiumfrei
flexible - resistant to mechanical stress - for subsequent installation - self extinguishing - UV-resistant - flame retardant
petrol resistant - oil resistant - acid resistant - free of silicone and cadmium

Anwendungen
application

Maschinenbau ✓
machine-building ✓
Automation ✓
automation ✓

Elektroinstallation ✓
electro-installation ✓
Bahn ✓
railway ✓

Fahrzeugbau ✓
automotive ✓
Schiffsbau ✓
shipbuilding ✓

EMV-Anwendungen
EMC-application
EX-Anwendungen
EX-application

Art. Nr. schwarz art. no. black	Art. Nr. natur art. no. nature	Bündelbereich AF mm	VPE unit
Spiralflex10B	Spiralflex10T	3 – 15	50 m
Spiralflex18B	Spiralflex18T	4 – 20	25 m
Spiralflex30B	Spiralflex30T	7 – 40	25 m
Spiralflex50B	Spiralflex50T	9 – 50	25 m
Spiralflex70B	Spiralflex70T	11 – 70	25 m
Spiralflex100B	Spiralflex100T	18 – 120	25 m
Spiralflex150B	Spiralflex150T	23 – 150	25 m

SCS



Ausführung construction	Flexibler Hitzeschutzschlauch, Temperaturklasse C flexible heat-protective conduit, temperature class C
Werkstoff material	Glasfasergewebe / Silikon-gummi glass fibre braid / silicone rubber
Temperatur temperature	-60°C - +250°C (kurzztg./short term +290°C)
Schutzart protection	IP68
Gemäß according to	IEC EN 61386

Schutz gegen hohe Temperaturen bis 250°C
protection against high temperatures up to 250°C



Eigenschaften
properties

hochtemperaturbeständig - flexibel - zugfest - mechanisch belastbar - flüssigkeitsdicht - selbstverlöschend
UV-beständig - flammwidrig - benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - halogenfrei
high temperature resistant - flexible - stretch resistant - resistant to mechanical stress - liquid tight - self extinguishing
UV-resistant - flame retardant - petrol resistant - oil resistant - acid resistant - halogen free

Anwendungen
application

- Maschinenbau
machine-building ✓
- Elektroinstallation
electro-installation ✓
- Fahrzeugbau
automotive ✓
- EMV-Anwendungen
EMC-application
- Automation
automation ✓
- Bahn
railway ✓
- Schiffsbau
shipbuilding ✓
- EX-Anwendungen
EX-application

Art. Nr. art. no.	Schlauch conduit NW	Durchschlagfestigkeit dielectric strength	VPE unit
auf Anfrage / on request	0,5	1,5 - 15 VK	200 m
auf Anfrage / on request	0,8	1,5 - 15 VK	200 m
auf Anfrage / on request	1	1,5 - 15 VK	200 m
auf Anfrage / on request	1,5	1,5 - 15 VK	200 m
auf Anfrage / on request	2	1,5 - 15 VK	200 m
auf Anfrage / on request	2,5	1,5 - 15 VK	200 m
auf Anfrage / on request	3	1,5 - 15 VK	200 m
auf Anfrage / on request	3,5	1,5 - 15 VK	200 m
auf Anfrage / on request	4	1,5 - 15 VK	200 m
auf Anfrage / on request	5	1,5 - 15 VK	100 m
auf Anfrage / on request	6	1,5 - 15 VK	100 m
auf Anfrage / on request	7	1,5 - 15 VK	100 m
auf Anfrage / on request	8	1,5 - 15 VK	100 m
auf Anfrage / on request	9	1,5 - 15 VK	100 m
auf Anfrage / on request	10	1,5 - 15 VK	100 m
auf Anfrage / on request	12	1,5 - 15 VK	100 m
auf Anfrage / on request	14	1,5 - 15 VK	50 m
auf Anfrage / on request	16	1,5 - 15 VK	50 m
auf Anfrage / on request	18	1,5 - 15 VK	50 m
auf Anfrage / on request	20	1,5 - 15 VK	50 m
auf Anfrage / on request	22	1,5 - 15 VK	30 m
auf Anfrage / on request	25	1,5 - 15 VK	30 m
auf Anfrage / on request	30	1,5 - 15 VK	30 m
auf Anfrage / on request	35	1,5 - 15 VK	30 m
auf Anfrage / on request	40	1,5 - 15 VK	30 m
auf Anfrage / on request	45	1,5 - 15 VK	30 m

HJT



Ausführung construction	Flexibler Hitzeschutzschlauch, Temperaturklasse C flexible heat-protective conduit, temperature class C
Werkstoff material	Glasfasergewebe / Silikon-gummi glass fibre braid / silicone rubber
Temperatur temperature	dauer/long-term +500°C (kurzzeitg./short term +1600°C)
Schutzart protection	IP68
Gemäß according to	IEC EN 61386

Schutz gegen hohe Temperaturen bis 500°C
protection against high temperatures up to 500°C



Eigenschaften
properties

hochtemperaturbeständig - flexibel - zugfest - mechanisch belastbar - flüssigkeitsdicht - selbstverlöschend
UV-beständig - flammwidrig - benzinbeständig - gute Ölbeständigkeit - gute Säurebeständigkeit - halogenfrei
high temperature resistant - flexible - stretch resistant - resistant to mechanical stress - liquid tight - self extinguishing
UV-resistant - flame retardant - petrol resistant - oil resistant - acid resistant - halogen free

Anwendungen
application

- Maschinenbau**
machine-building ✓
- Elektroinstallation**
electro-installation ✓
- Fahrzeugbau**
automotive ✓
- EMV-Anwendungen**
EMC-application
- Automation**
automation ✓
- Bahn**
railway ✓
- Schiffsbau**
shipbuilding ✓
- EX-Anwendungen**
EX-application

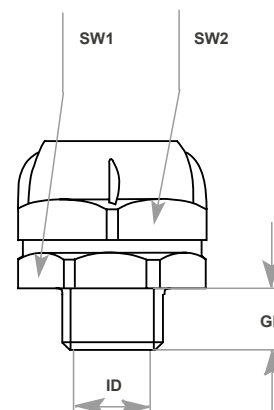
Art. Nr. art. no.	Schlauch conduit NW	VPE unit
HJT10	10	40m
HJT15	15	40m
HJT20	20	40m
HJT22	22	40m
HJT25	25	40m
HJT30	30	40m
HJT35	35	40m
HJT40	40	40m
HJT50	50	25m
HJT60	60	25m
HJT75	75	25m
HJT100	100	25m

UNI-VS



Ausführung construction	Universalverschraubung mit starrem Außengewinde universal fitting with rigid male thread	
Werkstoff material	Polyamid 6 (PA6) UL94 V0 polyamide 6 (PA6) UL94 V0	
Temperatur temperature	-20°C - +80°C	
Schutzart protection	IP65	
Gemäß according to	IEC EN 61386	
Für Schlauchtyp for conduit type	GL	92
Seite page	GL18	93
	GLD12	94
	GF	90
	GP	91
UNIVS	grau/grey	(RAL 7001)
UNIVSG	hellgrau/light grey	(RAL 7035)
UNIVSB	schwarz/black	(RAL 9005)

Für mehrere Schlauchtypen mit unterschiedlichen
Außendurchmessern geeignet
suitable for several conduit types with different
outside diameters



UNIVSB... = schwarz / black / RAL9005

UNIVSG... = grau / grey / RAL7035

UNIVS... = grau / grey / RAL7001

Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. unit pcs.
UNIVS*08M12	M12	8	24	25	10	6,0	100
UNIVS*10M16	M16	10	24	25	10	8,0	75
UNIVS*12M16	M16	12	26	28	12	10,0	75
UNIVS*12M20	M20	12	26	28	12	10,0	75
UNIVS*16M20	M20	16	31	34	13	13,0	30
UNIVS*21M25	M25	20 / 21	36	40	14	18,0	50
UNIVS*25M32	M32	25	42	45	15	23,0	25
UNIVS*27M32	M32	27 / 28	45	48	15	24,0	15
UNIVS*32M32	M32	32	51	56	15	27,0	10
UNIVS*35M40	M40	35	54	60	15	30,0	10
UNIVS*40M40	M40	40	61	67	15	34,0	10
UNIVS*44M50	M50	44	66	72	15	39,0	8
UNIVS*50M50	M50	50	73	80	20	45,5	5

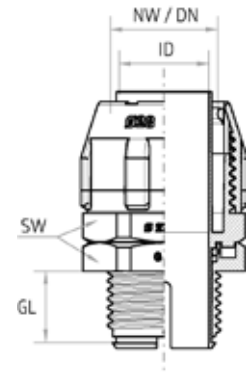
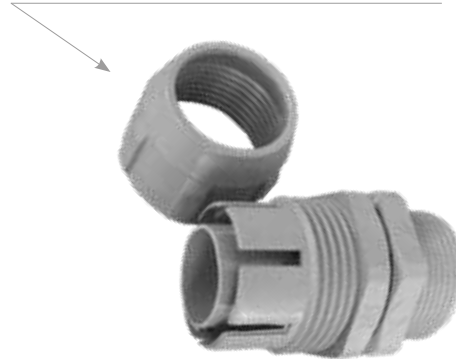
Gewindeart PG

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. unit pcs.
UNIVS*08PG07	PG07	8	24	25	10	6,0	100
UNIVS*10PG09	PG09	10	24	25	10	8,0	75
UNIVS*12PG11	PG11	12	26	28	12	10,0	75
UNIVS*12PG13	PG13,5	12	26	28	13	10,0	75
UNIVS*16PG13	PG13,5	16	31	34	13	13,0	50
UNIVS*16PG16	PG16	16	31	34	13	13,0	50
UNIVS*21PG21	PG21	20 / 21	36	40	14	18,0	50
UNIVS*27PG29	PG29	27 / 28	45	48	15	24,0	25
UNIVS*35PG36	PG36	35	54	60	15	30,0	25

GLM


Ausführung construction	Universalschraubung mit drehbarem Außengewinde universal fitting with swivelling male thread	
Werkstoff material	PVC / UL94 V0	
Temperatur temperature	-20°C - +80°C	
Schutzart protection	IP65	
Gemäß according to	IEC EN 61386	
Für Schlauchtyp for conduit type	GL	92
	GL18	93
	GLD12	94
	GF	90
	GP	91
Seite page		
GLM	grau/grey	(RAL 7001)
GLMG	hellgrau/light grey	(RAL 7035)
GLMN	schwarz/black	(RAL 9005)

Für mehrere Schlauchtypen mit unterschiedlichen Außendurchmessern geeignet
 Suitable for several conduit types with different outside diameters



GLMN... = schwarz / black / RAL9005

GLMG... = grau / grey / RAL7035

GLM... = grau / grey / RAL7001

Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW mm	GL mm	ID mm	VPE Stk. unit pcs.
GLM*10M12	M12	10	22	11,0	8	50
GLM*12M16	M16	12	24	11,0	10	50
GLM*16M20	M20	16	29	13,5	13	50
GLM*20M25	M25	20	33	13,5	18	50
GLM*22M25	M25	22	36	13,5	20	50
GLM*25M32	M32	25	40	17,0	23	25
GLM*28M32	M32	28	43	17,0	25	25
GLM*32M40	M40	32	48	18,0	30	25
GLM*35M40	M40	35	52	18,0	33	20
GLM*40M50	M50	40	58	19,0	38	15
GLM*50M63	M63	50	70	19,5	48	10

Gewindeart PG

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW mm	GL mm	ID mm	VPE Stk. unit pcs.
GLM*08PG07	PG07	8	19	11,0	6	50
GLM*10PG07	PG07	10	22	11,0	8	50
GLM*10PG09	PG09	10	22	11,0	8	50
GLM*10PG11	PG11	10	22	11,0	8	50
GLM*10PG13	PG13,5	10	22	11,0	8	50
GLM*12PG09	PG09	12	24	11,0	10	50
GLM*12PG11	PG11	12	24	11,0	10	50
GLM*12PG13	PG13,5	12	24	11,0	10	50
GLM*14PG11	PG11	14	27	13,5	12	50
GLM*14PG13	PG13,5	14	27	13,5	12	50
GLM*16PG13	PG13,5	15/16	29	13,5	13	50
GLM*16PG16	PG16	15/16	29	13,5	13	50
GLM*18PG16	PG16	18	33	13,5	16	50
GLM*20PG21	PG21	20	33	13,5	18	50
GLM*22PG21	PG21	22	36	13,5	20	50
GLM*25PG21	PG21	25	36/40	13,5	20	25
GLM*25PG29	PG29	25	40	17,0	23	25
GLM*28PG29	PG29	27/28	43	17,0	25	25
GLM*32PG29	PG29	32	48	18,0	30	25
GLM*35PG36	PG36	35/36	52	18,0	33	20
GLM*40PG36	PG36	40	58	19,0	38	15
GLM*50PG48	PG48	50	70	19,5	48	10

VS1202N



Ausführung construction	Verschraubung mit drehbarem Außengewinde für Schutzschläuche mit eingebetteter Spirale fitting with swivelling male thread for protective conduits with embedded spiral	
Werkstoff material	Polypropylene (PP) UL94 V0 polypropylene (PP) UL94 V0	
Temperatur temperature	-10°C - +110°C	
Schutzart protection	IP54	
Gemäß according to	IEC EN 61386	
Farbe colour	grau / grey (RAL 7001)	
Für Schlauchtyp for conduit type	GL	92
Seite page	GL18	93
	GLD12	94

Für Schläuche mit eingebetteter Spirale
for conduits with embedded spirals



Drehbares Außengewinde
swivelling male thread

Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW mm	GL mm	ID mm	VPE Stk. unit pcs.
VS1202N07M12	M12	7	17	7,5	5,5	50
VS1202N10M16	M16	10	20	8,5	8,8	50
VS1202N13M20	M20	13	24	9	11,1	50
VS1202N16M25	M25	16	30	10	14,8	50
VS1202N21M32	M32	21	36	11	19,4	25
VS1202N29M40	M40	29 / 30	46	12	27,9	25
VS1202N38M50	M50	38	55	13	35,6	25
VS1202N48M63	M63	48	65	13,5	45,9	10

Gewindeart PG

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW mm	GL mm	ID mm	VPE Stk. unit pcs.
VS1202N07PG07	PG07	7	17	7,5	5,5	50
VS1202N10PG09	PG09	10	20	8,5	8,8	50
VS1202N13PG11	PG11	13	24	9	11,1	50
VS1202N15PG13	PG13,5	15	27	9,5	13,0	50
VS1202N16PG16	PG16	16	30	10	14,8	50
VS1202N21PG21	PG21	21	36	11	19,4	25
VS1202N29PG29	PG29	29 / 30	46	12	27,9	25
VS1202N38PG36	PG36	38	55	13	35,6	25
VS1202N44PG42	PG42	44	62	13	41,9	10
VS1202N48PG48	PG48	48	65	13,5	45,9	10



VSH1205N

Ausführung construction	Drehbarer Flanschanschluss für Schutzschläuche mit eingebetteter Spirale swivelling flange-fitting for protective conduits with embedded spiral	
Werkstoff material	Polypropylen (PP) UL94 V0 polypropylene (PP) UL94 V0	
Temperatur temperature	-10°C - +110°C	
Schutzart protection	IP54	
Gemäß according to	IEC EN 61386	
Farbe colour	grau / grey (RAL 7001)	
Für Schlauchtyp for conduit type	GL	92
Seite page	GL18	93
	GLD12	94

Für Schläuche mit eingebetteter Spirale
for conduits with embedded spirals



Drehbare Schlauchanschluss mit Flansch
swivelling conduit connector with flange

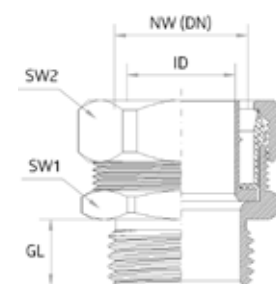
Art. Nr. art. no.	Schlauch NW conduit DN	ID mm	VPE Stk. unit pcs.
VSH1205N07	7	5,5	50
VSH1205N10	10	8,8	50
VSH1205N13	13	11,1	50
VSH1205N15	15	13,0	50
VSH1205N16	16	14,8	50
VSH1205N21	21	19,4	25
VSH1205N30	29 / 30	27,9	25
VSH1205N38	38	35,6	25
VSH1205N44	44	41,9	10
VSH1205N48	48	45,9	10

GFMF



Ausführung construction	Verschraubung mit starrem Außengewinde fitting with rigid male thread	
Werkstoff material	Messing vernickelt nickel-plated brass	
Temperatur temperature	-20°C - +105°C	
Schutzart protection	IP67	
Gemäß according to	IEC EN 61386	
Für Schlauchtyp for conduit type	GF	90
Seite page	GFT	90

Für Schlauchtypen GF und GFT
for conduit types GF and GFT



Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. unit pcs.
GFMF10M12	M12	10	22	24	10	8,0	20
GFMF10M16	M16	10	22	24	10	8,5	20
GFMF10M20	M20	10	22	24	10	8,5	20
GFMF12M16	M16	12	24	26	10	10,5	20
GFMF12M20	M20	12	24	26	10	10,5	20
GFMF15M20	M20	15	28	30	10	13,5	20
GFMF20M25	M25	20	35	38	10	18,5	10
GFMF27M32	M32	27	42	45	12	25,0	10
GFMF36M40	M40	36	50	53	12	34,0	5
GFMF40M50	M50	40	58	61	13	37,5	5
GFMF47M63	M63	47	64	70	13	44,0	2

Gewindeart PG

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. unit pcs.
GFMF10PG07	PG7	10	22	24	10	8,5	20
GFMF10PG09	PG9	10	22	24	10	8,5	20
GFMF10PG11	PG11	10	22	24	10	8,5	20
GFMF10PG13	PG13,5	10	22	24	10	8,5	20
GFMF12PG11	PG11	12	24	26	10	10,5	20
GFMF12PG13	PG13,5	12	24	26	10	10,5	20
GFMF15PG13	PG13,5	15	28	30	10	13,5	20
GFMF15PG16	PG16	15	28	30	10	13,5	20
GFMF20PG21	PG21	20	35	38	12	18,5	10
GFMF27PG29	PG29	27	42	45	12	25,0	10
GFMF36PG36	PG36	36	50	53	12	34,0	5
GFMF40PG36	PG36	40	58	61	17	37,5	5
GFMF40PG42	PG42	40	58	61	13	37,5	5
GFMF47PG48	PG48	47	64	70	13	44,0	2

GFM



Ausführung construction	Schlauchanschlussstutzen mit starrem Außengewinde conduit nozzle with rigid male thread	
Werkstoff material	Messing vernickelt nickel-plated brass	
Temperatur temperature	-20°C - +105°C	
Schutzart protection	IP67	
Gemäß according to	IEC EN 61386	
Für Schlauchtyp for conduit type	GF	90
Seite page	GFT	90

Für Schlauchtypen wie GF und GFT
for conduit types like GF and GFT



Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW mm	GL mm	ID mm	VPE Stk. unit pcs.
GFM10M12	M12	10	19	7	8	20
GFM10M16	M16	10	19	7	8	20
GFM12M16	M16	12	22	10	10	20
GFM12M20	M20	12	24	10	10	20
GFM15M20	M20	15	24	10	13	20
GFM20M20	M20	20	27	10	16	10
GFM20M25	M25	20	30	12	17	10
GFM27M25	M25	27	36	12	21	10
GFM27M32	M32	27	36	12	23	10
GFM36M32	M32	36	44	12	26	5
GFM40M40	M40	40	50	13	35	5
GFM47M50	M50	47	58	15	42	5
GFM58M63	M63	50	70	15	51	2

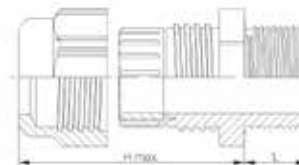
Gewindeart PG

Art. Nr. art. no.	Gewinde thread	Schlauch NW conduit DN	SW1 mm	GL mm	ID mm	VPE Stk. unit pcs.
GFMP10PG07	PG07	10	19	7	8	20
GFMP10PG09	PG09	10	19	7	8	20
GFMP10PG11	PG11	10	22	7	8	20
GFMP12PG11	PG11	12	22	7	10	20
GFMP12PG13	PG13,5	12	24	7	10	20
GFMP12PG16	PG16	12	24	7	10	20
GFMP15PG13	PG13,5	15	24	7	13	20
GFMP15PG16	PG16	15	24	7	13	20
GFMP20PG13	PG13,5	20	27	7	16	10
GFMP20PG16	PG16	20	27	7	17	10
GFMP20PG21	PG21	20	30	10	17	10
GFMP27PG21	PG21	27	36	10	23	10
GFMP27PG29	PG29	27	40	10	23	10
GFMP36PG29	PG29	36	45	11	30	10
GFMP40PG36	PG36	40	50	13	36	5
GFMP47PG36	PG36	47	58	15	40	5
GFMP47PG42	PG42	47	58	15	42	5
GFMP58PG48	PG48	58	70	15	51	2

K-LFKV



Ausführung construction	Standard standard
Werkstoff material	Polyamid PA6 / CR polyamide PA/ CR
Temperatur temperature	-20°C - +100°C
Kurzzeitig short term	-30°C - +150°C
Schutzart protection	IP68
Besonderheit: specials:	Dichtung über Klemmkäfig sealing by clamping cage



K-LFKVB... = schwarz/black/RAL9005

K-LFKV... = grau/grey/RAL7001

K-LFKVG... = hellgrau/light grey/RAL7035

Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	GL mm	VPE Stk. unit pcs.
K-LFKV*M1205	M12	2,0 - 5,0	15	8,0	100
K-LFKV*M1207	M12	3,0 - 6,5	15	8,0	100
K-LFKV*M1607	M16	3,0 - 7,0	22	10,0	50
K-LFKV*M1608	M16	4,0 - 8,0	19	8,0	50
K-LFKV*M1610	M16	5,0 - 10,0	22	10,0	50
K-LFKV*M2009	M20	5,0 - 9,0	24	10,0	50
K-LFKV*M2012	M20	6,0 - 12,0	24	10,0	50
K-LFKV*M2012	M20	7,0 - 12,0	27	10,0	50
K-LFKV*M2014	M20	10,0 - 14,0	27	10,0	50
K-LFKV*M2514	M25	9,0 - 14,0	33	10,0	50
K-LFKV*M2517	M25	11,0 - 17,0	29	8,0	50
K-LFKV*M2518	M25	13,0 - 18,0	33	10,0	25
K-LFKV*M3220	M32	12,0 - 20,0	42	18,0	20
K-LFKV*M3221	M32	15,0 - 21,0	36	10,0	25
K-LFKV*M3225	M32	18,0 - 25,0	42	18,0	20
K-LFKV*M4028	M40	19,0 - 28,0	46	10,0	20
K-LFKV*M4026	M40	20,0 - 26,0	53	18,0	10
K-LFKV*M4032	M40	22,0 - 32,0	53	18,0	10
K-LFKV*M5031	M50	25,0 - 31,0	60	18,0	10
K-LFKV*M5038	M50	30,0 - 38,0	60	18,0	10
K-LFKV*M6335	M63	29,0 - 35,0	65	18,0	10
K-LFKV*M6344	M63	34,0 - 44,0	65	18,0	10

Gewindeart PG

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	GL mm	VPE Stk. unit pcs.
K-LFKV*PG0705	PG07	2,0 - 5,0	15	8,0	100
K-LFKV*PG0707	PG07	3,0 - 6,5	15	8,0	100
K-LFKV*PG0906	PG09	2,0 - 6,0	19	8,0	50
K-LFKV*PG0908	PG09	4,0 - 8,0	19	8,0	50
K-LFKV*PG1107	PG11	3,0 - 7,0	22	8,0	50
K-LFKV*PG1110	PG11	5,0 - 10,0	22	8,0	50
K-LFKV*PG1309	PG13,5	5,0 - 9,0	24	9,0	50
K-LFKV*PG1312	PG13,5	6,0 - 12,0	24	9,0	50
K-LFKV*PG1612	PG16	7,0 - 12,0	27	10,0	50
K-LFKV*PG1614	PG16	10,0 - 14,0	27	10,0	50
K-LFKV*PG2116	PG21	9,0 - 16,0	33	11,0	25
K-LFKV*PG2118	PG21	13,0 - 18,0	33	11,0	25
K-LFKV*PG2920	PG29	12,0 - 20,0	42	11,0	20
K-LFKV*PG2925	PG29	18,0 - 25,0	42	11,0	20
K-LFKV*PG3626	PG36	20,0 - 26,0	53	13,0	10
K-LFKV*PG3632	PG36	22,0 - 32,0	53	13,0	10
K-LFKV*PG4231	PG42	25,0 - 31,0	60	13,0	10
K-LFKV*PG4238	PG42	30,0 - 38,0	60	13,0	10
K-LFKV*PG4835	PG48	29,0 - 35,0	65	14,0	10
K-LFKV*PG4844	PG48	34,0 - 44,0	65	14,0	10

Auch mit Langgewinde, NPT-Gewinde oder Knickschutz-
tülle lieferbar.

Also available with long thread, NPT-thread or with bend
protection.

K-KVDA



Ausführung construction	Druckausgleich pressure balance
Werkstoff material	Polyamid 6 / NBR polyamide 6 / NBR
Temperatur temperature	-20°C - +100°C
Kurzzeitig short term	-
Schutzart protection	IP66 / 67
Besonderheit: specials:	PTFE Druck- ausgleichselement integriert PTFE pressure balance element integrated



K-KVDAB... = schwarz/black/RAL9005

K-KVDA.. = grau/grey/RAL7001

K-KVDAG... = hellgrau/light grey/RAL7035

Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW1 mm	SW2 mm	GL mm	H mm	VPE Stk. unit pcs.
K-KVDA...M12	M12	4,0 - 8,0	19	19	8,0	25,5	100
K-KVDA...M16	M16	4,0 - 8,0	19	19	10,0	25,5	50
K-KVDA...M20	M20	6,0 - 12,0	24	24	10,0	30,0	50

Gewindeart PG

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW1 mm	SW2 mm	GL mm	H mm	VPE Stk. unit pcs.
K-KVDA...P09	PG9	4,0 - 8,0	19	19	8,0	25,5	50
K-KVDA...P11	PG11	4,0 - 8,0	22	22	8,0	25,0	50
K-KVDA...P13	PG13,5	6,0 - 12,0	24	24	9,0	30,0	50

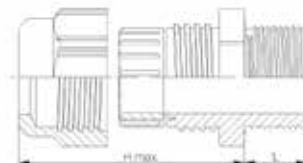
K-LHSK-PVDF



Ausführung construction	Hochtemperatur high temperature
Werkstoff material	PVDF / FPM
Temperatur temperature	-35°C - +150°C
Kurzzeitig short term	-
Schutzart protection	IP68

Besonderheit:
specials:

Gute thermische und chemische Beständigkeit
good heat and chemical resistance



Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	Klemmber. mm cl. range mm	GL mm	SW mm	VPE Stk. unit pcs.
K-LHSK-M1205	M12x1,5	2,0 - 5,0	8,0	15	50
K-LHSK-M1207	M12x1,5	3,0 - 6,5	8,0	15	50
K-LHSK-M1606	M16x1,5	2,0 - 6,0	8,0	19	50
K-LHSK-M1608	M16x1,5	4,0 - 8,0	8,0	19	50
K-LHSK-M2009	M20x1,5	5,0 - 9,0	9,0	24	50
K-LHSK-M2012	M20x1,5	6,0 - 12,0	9,0	24	50
K-LHSK-M2516	M25x1,5	9,0 - 16,0	11,0	33	50
K-LHSK-M2518	M25x1,5	13,0 - 18,0	11,0	33	50
K-LHSK-M3220	M32x1,5	13,0 - 20,0	11,0	42	25
K-LHSK-M3225	M32x1,5	18,0 - 25,0	11,0	42	25

Gewindeart PG

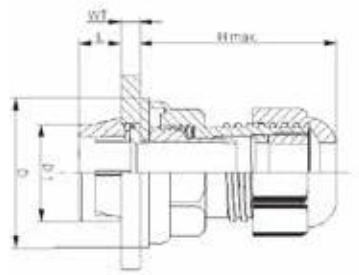
Art. Nr. art. no.	Gewinde thread	Klemmber. mm cl. range mm	GL mm	SW mm	VPE Stk. unit pcs.
K-LHSK-PG0705	PG7	2,0 - 5,0	8,0	15	50
K-LHSK-PG0707	PG7	3,0 - 6,5	8,0	15	50
K-LHSK-PG0906	PG9	2,0 - 6,0	8,0	19	50
K-LHSK-PG0908	PG9	4,0 - 8,0	8,0	19	50
K-LHSK-PG1107	PG11	3,0 - 7,0	8,0	22	50
K-LHSK-PG1110	PG11	5,0 - 10,0	8,0	22	50
K-LHSK-PG1309	PG13,5	5,0 - 9,0	9,0	24	50
K-LHSK-PG1312	PG13,5	6,0 - 12,0	9,0	24	50
K-LHSK-PG1612	PG16	7,0 - 12,0	10,0	27	50
K-LHSK-PG1614	PG16	10,0 - 14,0	10,0	27	50
K-LHSK-PG2116	PG21	9,0 - 16,0	11,0	33	50
K-LHSK-PG2118	PG21	13,0 - 18,0	11,0	33	50
K-LHSK-PG2920	PG29	13,0 - 20,0	11,0	42	25
K-LHSK-PG2925	PG29	18,0 - 25,0	11,0	42	25
K-LHSK-PG3626	PG36	20,0 - 26,0	13,0	53	10
K-LHSK-PG3632	PG36	22,0 - 32,0	13,0	53	10
K-LHSK-PG4231	PG42	25,0 - 31,0	13,0	60	5
K-LHSK-PG4238	PG42	32,0 - 38,0	13,0	60	5
K-LHSK-PG4835	PG48	29,0 - 35,0	14,0	65	5
K-LHSK-PG4844	PG48	37,0 - 44,0	14,0	65	5



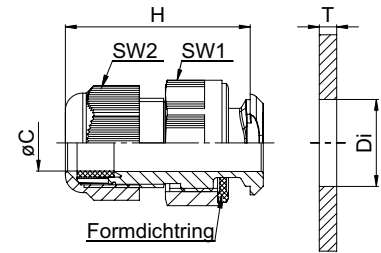
K-KV-FIX - FRONTFIX

Ausführung construction	Schnellmontage fast installation
Werkstoff material	Polyamid 6 / NBR polyamide 6 / NBR
Temperatur temperature	-20°C - +100°C
Kurzzeitig short term	-30°C - +150°C
Schutzart protection	IP68
Besonderheit: specials:	Montierbar in metrischen Durchgangsbohrungen can be installed in metric wholes

FRONTFIX



K-KV-FIX



...FIXB... = schwarz / black / RAL9005

...FIX... = grau / grey / RAL7001

...FIXG... = hellgrau / light grey / RAL7035

K-KV-FIX

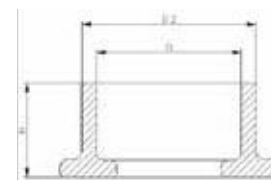
Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW1 mm	SW2 mm	Wandstärke T wall thickness T mm	H mm	VPE Stk. unit pcs.
K-KVFIX...M1610	M16	5,0 - 10,0	24	20	1,0 - 4,0	38,5	100
K-KVFIX...M2012	M20	8,0 - 13,0	26	24	1,0 - 4,0	42,5	100
K-KVFIX...M2517	M25	11,0 - 17,0	32	29	1,0 - 4,0	48,0	50

FRONTFIX

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW1 mm	SW2 mm	GL mm	H mm	VPE Stk. unit pcs.
K-FFIX...M1610	M16	5,0 - 10,0	22	22	9,0	4,25	100
K-FFIX...M2012	M20	6,0 - 12,0	24	24	9,0	41,5	50
K-FFIX...M2013	M20	7,0 - 13,0	25	25	9,0	41,5	50
K-FFIX...M2517	M25	11,0 - 17,0	29	29	9,0	43,5	25
K-FFIX...M3221	M32	15,0 - 21,0	36	36	9,0	49,5	25
K-FFIX...M4028	M40	19,0 - 28,0	46	46	11,5	56,0	20

FRONTFIX - UNLOK

Art. Nr. art. no.	Größe size	D mm	D2 mm	H mm	VPE Stk. unit pcs.
UNLOK16	M16	16	20	13	10
UNLOK20	M20	20	24	13	10
UNLOK25	M20	25	29	13	10
UNLOK32	M25	32	36	13	10
UNLOK40	M32	40	44	15,5	10

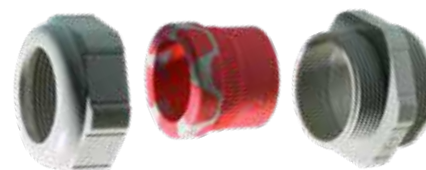
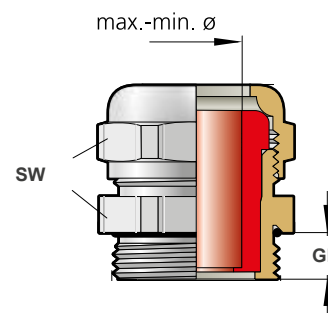


Demontagewerkzeug
disassembling tool

K-UNI DICHT



Ausführung construction	Standard standard
Werkstoff material	Polyamid 6 / TPE polyamide 6 / TPE
Temperatur temperature	-20°C - +100°C
Kurzzeitig short term	-
Schutzart protection	IP68
Besonderheit: specials:	Vollgummi Dichteinsatz solid rubber insert



Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	H mm	GL mm	VPE Stk. unit pcs.
K-UNIM1207	M12	4,0 - 6,5	15	30,0	8,0	50
K-UNIM1607	M16	4,0 - 6,5	19	31,0	9,0	50
K-UNIM1608	M16	5,0 - 8,0	19	31,0	9,0	50
K-UNIM1610	M16	6,5 - 9,5	19	31,0	9,0	50
K-UNIM2007	M20	4,0 - 6,5	24	31,0	9,0	50
K-UNIM2008	M20	5,0 - 8,0	24	31,0	9,0	50
K-UNIM2010	M20	6,5 - 9,5	24	31,0	9,0	50
K-UNIM2011	M20	7,0 - 10,5	24	31,0	9,0	50
K-UNIM2013	M20	9,0 - 13,0	24	31,0	9,0	50
K-UNIM2507	M25	4,0 - 6,5	30	32,0	9,0	50
K-UNIM2508	M25	5,0 - 8,0	30	32,0	9,0	50
K-UNIM2510	M25	6,5 - 9,5	30	32,0	9,0	50
K-UNIM2511	M25	7,0 - 10,5	30	32,0	9,0	50
K-UNIM2513	M25	9,0 - 13,0	30	32,0	9,0	50
K-UNIM2516	M25	11,5 - 15,5	30	32,0	9,0	50
K-UNIM3211	M32	7,0 - 10,5	36	38,0	11,0	25
K-UNIM3213	M32	9,0 - 13,0	36	38,0	11,0	25
K-UNIM3216	M32	11,5 - 15,5	36	38,0	11,0	25
K-UNIM3218	M32	14,0 - 18,0	36	38,0	11,0	25
K-UNIM3221	M32	17,0 - 20,5	36	38,0	11,0	25
K-UNIM4016	M40	11,5 - 15,5	46	45,5	11,5	10
K-UNIM4018	M40	14,0 - 18,0	46	45,5	11,5	10
K-UNIM4021	M40	17,0 - 20,5	46	45,5	11,5	10
K-UNIM4025	M40	20,0 - 25,0	46	45,5	11,5	10
K-UNIM4028	M40	24,0 - 28,0	46	45,5	11,5	10
K-UNIM5032	M50	27,0 - 32,0	56	48,0	14,0	5
K-UNIM5034	M50	29,0 - 34,0	56	48,0	14,0	5
K-UNIM5036	M50	32,0 - 36,0	56	48,0	14,0	5

Gewindeart PG

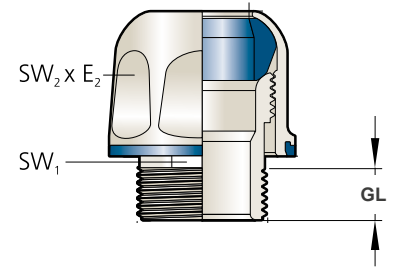
Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	H mm	GL mm	VPE Stk. unit pcs.
K-UNIPG0707	PG07	4,0 - 6,5	15	31,0	8,0	50
K-UNIPG0907	PG09	4,0 - 6,5	19	32,0	9,0	50
K-UNIPG0908	PG09	5,0 - 8,0	19	32,0	9,0	50
K-UNIPG0910	PG09	6,5 - 9,5	19	32,0	9,0	50
K-UNIPG1107	PG11	4,0 - 6,5	22	33,0	9,0	50
K-UNIPG1108	PG11	5,0 - 8,0	22	33,0	9,0	50
K-UNIPG1110	PG11	6,5 - 9,5	22	33,0	9,0	50
K-UNIPG1111	PG11	7,0 - 10,5	22	33,0	9,0	50
K-UNIPG1307	PG13,5	4,0 - 6,5	24	33,0	9,0	50
K-UNIPG1308	PG13,5	5,0 - 8,0	24	33,0	9,0	50
K-UNIPG1310	PG13,5	6,5 - 9,5	24	33,0	9,0	50
K-UNIPG1311	PG13,5	7,0 - 10,5	24	33,0	9,0	50
K-UNIPG1313	PG13,5	9,0 - 13,0	24	33,0	9,0	50
K-UNIPG1607	PG16	4,0 - 6,5	27	33,0	9,0	50
K-UNIPG1608	PG16	5,0 - 8,0	27	33,0	9,0	50
K-UNIPG1610	PG16	6,5 - 9,5	27	33,0	9,0	50
K-UNIPG1611	PG16	7,0 - 10,5	27	33,0	9,0	50
K-UNIPG1613	PG16	9,0 - 13,0	27	33,0	9,0	50
K-UNIPG1616	PG16	11,5 - 15,5	27	33,0	9,0	50
K-UNIPG2111	PG21	7,0 - 10,5	33	40,0	11,0	25
K-UNIPG2113	PG21	9,0 - 13,0	33	40,0	11,0	25
K-UNIPG2116	PG21	11,5 - 15,5	33	40,0	11,0	25
K-UNIPG2118	PG21	14,0 - 18,0	33	40,0	11,0	25
K-UNIPG2121	PG21	17,0 - 20,5	33	40,0	11,0	25
K-UNIPG2913	PG29	9,0 - 13,0	43	44,0	11,0	10
K-UNIPG2916	PG29	11,5 - 15,5	43	44,0	11,0	10
K-UNIPG2918	PG29	14,0 - 18,0	43	44,0	11,0	10
K-UNIPG2921	PG29	17,0 - 20,5	43	44,0	11,0	10
K-UNIPG2925	PG29	20,0 - 25,0	43	44,0	11,0	25
K-UNIPG2928	PG29	24,0 - 28,0	43	44,0	11,0	25
K-UNIPG3632	PG36	27,0 - 32,0	53	47,0	14,0	10
K-UNIPG3634	PG36	29,0 - 34,0	53	47,0	14,0	10
K-UNIPG3636	PG36	32,0 - 36,0	53	47,0	14,0	10

Auch in schwarz und mit Mehrfachdichteinsätzen lieferbar.
Also available in black and with multiple sealing inserts.

K-Blue Clean



Ausführung construction	Hygiene / Lebensmittel hygienic / food
Werkstoff material	Polyamid 6 / TPU / SI polyamide 6 / TPU / SI
Temperatur temperature	-20°C - +110°C°
Kurzzeitig short term	-
Schutzart protection	IP68
Besonderheit: specials.	Entspricht den Anforderungen an die Hygienetauglichkeit und Reinigung. Complies with requirements of hygiene and cleaning.



TPU -20°C - +85°C

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW1 mm	SW2 mm	GL mm	H mm	VPE Stk. unit pcs.
K-BGCM16	M16	7,0 - 9,0	14	22	9,0	34,0	5
K-BGCM20	M20	9,0 - 12,0	18	26	9,0	39,0	5
K-BGCM25	M25	12,0 - 15,0	24	32	10,0	40,0	5
K-BGCM25	M25	15,0 - 18,0	24	32	10,0	40,0	5
K-BGCM32	M32	18,0 - 21,0	30	38	11,0	43,0	5
K-BGCM32	M32	20,0 - 23,0	30	38	11,0	43,0	5

SI -20°C - +110°C

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW1 mm	SW2 mm	GL mm	H mm	VPE Stk. unit pcs.
K-BGCM16HT	M16	7,0 - 9,0	14	22	9,0	34,0	5
K-BGCM20HT	M20	9,0 - 12,0	18	26	9,0	39,0	5
K-BGCM25HT	M25	12,0 - 15,0	24	32	10,0	40,0	5
K-BGCM25HT	M25	15,0 - 18,0	24	32	10,0	40,0	5
K-BGCM32HT	M32	18,0 - 21,0	30	38	11,0	43,0	5
K-BGCM32HT	M32	20,0 - 23,0	30	38	11,0	43,0	5

K-EXE - K-EXI



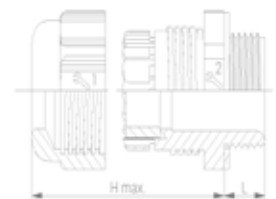
Ausführung construction	EX-Anwendungen EX-application
Werkstoff material	Polyamid 6 / CR / SI polyamide 6 / CR / SI
Temperatur temperature	-40°C - +70°C / CR
Temperatur temperature	-60°C - +70°C / SI
Schutzart protection	IP68
Besonderheit: specials:	EX-Zulassungen EX-approvals



EX i



EX e



Art. Nr. CR art. no. CR	Art. Nr. SI art. no. SI	Gewinde thread	für Kabel for cable	SW1 mm	SW2 mm	GL mm	H mm	VPE Stk. unit pcs.
K-EXEM1206	K-EXEM1206SI	M12	4,0 - 6,5	15	15	10	22,0	100
K-EXEM1608	K-EXEM1608SI	M16	5,0 - 8,0	19	19	10	26,0	50
K-EXEM1610	K-EXEM1610SI	M16	6,0 - 10,0	22	22	10	29,5	50
K-EXEM2012	K-EXEM2012SI	M20	7,0 - 12,0	24	24	10	30,0	50
K-EXEM2013	K-EXEM2013SI	M20	7,0 - 13,0	25	25	10	30,0	50
K-EXEM2014	K-EXEM2014SI	M20	11,0 - 14,0	27	27	10	33,0	50
K-EXEM2517	K-EXEM2517SI	M25	12,0 - 17,0	29	29	10	34,0	50
K-EXEM2518	K-EXEM2518SI	M25	14,0 - 18,0	33	33	10	35,0	25
K-EXEM3221	K-EXEM3221SI	M32	16,0 - 21,0	36	36	10	42,0	25
K-EXEM3225	K-EXEM3225SI	M32	19,0 - 25,0	42	42	15	40,5	20
K-EXEM4028	K-EXEM4028SI	M40	20,0 - 28,0	46	46	10	45,0	20
K-EXEM4032	K-EXEM4032SI	M40	28,0 - 32,0	53	53	18	50,0	10
K-EXEM5038	K-EXEM5038SI	M50	31,0 - 38,0	60	60	18	54,0	10
K-EXEM6344	K-EXEM6344SI	M63	35,0 - 44,0	65	65	13	54,0	10

Art. Nr. CR art. no. CR	Art. Nr. SI art. no. SI	Gewinde thread	für Kabel for cable	SW1 mm	SW2 mm	GL mm	H mm	VPE Stk. unit pcs.
K-EXIM1206	K-EXIM1206SI	M12	4,0 - 6,5	15	15	10	22,0	100
K-EXIM1608	K-EXIM1608SI	M16	5,0 - 8,0	19	19	10	26,0	50
K-EXIM1610	K-EXIM1610SI	M16	6,0 - 10,0	22	22	10	29,5	50
K-EXIM2012	K-EXIM2012SI	M20	7,0 - 12,0	24	24	10	30,0	50
K-EXIM2013	K-EXIM2013SI	M20	7,0 - 13,0	25	25	10	30,0	50
K-EXIM2014	K-EXIM2014SI	M20	11,0 - 14,0	27	27	10	33,0	50
K-EXIM2517	K-EXIM2517SI	M25	12,0 - 17,0	29	29	10	34,0	50
K-EXIM2518	K-EXIM2518SI	M25	14,0 - 18,0	33	33	10	35,0	25
K-EXIM3221	K-EXIM3221SI	M32	16,0 - 21,0	36	36	10	42,0	25
K-EXIM3225	K-EXIM3225SI	M32	19,0 - 25,0	42	42	15	40,5	20
K-EXIM4028	K-EXIM4028SI	M40	20,0 - 28,0	46	46	10	45,0	20
K-EXIM4032	K-EXIM4032SI	M40	28,0 - 32,0	53	53	18	50,0	10
K-EXIM5038	K-EXIM5038SI	M50	31,0 - 38,0	60	60	18	54,0	10
K-EXIM6344	K-EXIM6344SI	M63	35,0 - 44,0	65	65	13	54,0	10

K-KADP



Ausführung construction	Platte /mehrfach plate / multiple
Werkstoff material	PA 6 / TPE
Temperatur temperature	-30°C - +100°C
Kurzzeitig short term	-
Schutzart protection	IP67
Besonderheit: specials:	Ideal bei geringen Platzverhältnissen ideal where space is limited



Anzahl der Öffnungen auf der Kabeldurchführungsplatte passend für Leitungsdurchmesser:
number of entries on the cable entry plate suitable for cable diameter:

Bezeichnung description	Art. Nr. art. no.	1,5 - 2,6 mm	2,5 - 5,0 mm	3,0 - 5,5 mm	3,0 - 6,5 mm	4,1 - 8,1 mm	5,0 - 9,2 mm	8,0 - 12,0 mm	8 - 12,5 mm	9,0 - 14,0 mm	9,6 - 15,9 mm	14,0 - 20,0 mm	VPE Stk. unit pcs.
KADP 24/11	F305-9240-00				4		4					3	1
KADP 24/12	F305-9240-01							12					1
KADP 24/13	F305-9240-02			2		6				4		1	1
KADP 24/14	F305-9240-03				6		4				4		1
KADP 24/17	F305-9240-04						17						1
KADP 24/17-1	F305-9240-05				11	1			5				1
KADP 24/22	F305-9240-06				16		4		2				1
KADP 24/23	F305-9240-07					23							1
KADP 24/29	F305-9240-08				29								1
KADP 24/BLI	F305-9240-99												1

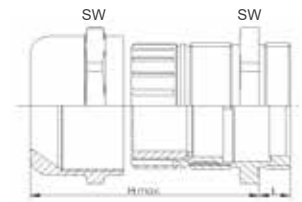
Lochmaß
hole dimensions



M-LF



Ausführung construction	Standard standard
Werkstoff material	Messing vernickelt/PA6 nickel-plated brass/PA6
Dichtring sealing	Chloropren CR chloroprene CR
Temperatur temperature	-40°C - +100°C kurz / short +150°C
Schutzart protection	IP68
Besonderheit: specials:	Dichtung über Klemmkäfig sealing by clamping cage



Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	L mm	H mm	VPE Stk. unit pcs.
M-LFM1205	M12	2,0 - 5,0	14	5,0	25,0	100
M-LFM1206	M12	3,0 - 6,5	14	5,0	25,0	100
M-LFM1606	M16	2,0 - 6,0	17	7,0	33,0	50
M-LFM1608	M16	3,0 - 8,0	17	5,5	28,0	100
M-LFM1610	M16	4,5 - 10,0	17	6,0	28,0	100
M-LFM2009	M20	5,0 - 9,0	22	6,0	30,0	50
M-LFM2012	M20	6,0 - 12,0	22	6,0	30,0	50
M-LFM2013	M20	8,0 - 13,0	22	6,0	30,0	50
M-LFM2512	M25	7,0 - 12,0	24	8,0	42,0	25
M-LFM2514	M25	8,0 - 14,0	30	7,0	35,0	25
M-LFM2517	M25	11,0 - 18,0	30	7,0	35,0	25
M-LFM3216	M32	9,0 - 16,0	30	9,0	48,0	25
M-LFM3218	M32	13,0 - 19,0	34	8,0	35,0	10
M-LFM3221	M32	15,0 - 21,0	34	8,0	38,0	10
M-LFM4020	M40	12,0 - 20,0	44	8,0	43,0	10
M-LFM4023	M40	16,0 - 23,0	44	8,0	43,0	10
M-LFM4025	M40	18,0 - 25,0	40	9,0	53,0	20
M-LFM4028	M40	19,0 - 28,0	44	8,0	52,0	10
M-LFM5026	M50	20,0 - 26,0	54	9,0	52,0	5
M-LFM5029	M50	21,0 - 29,0	54	9,0	52,0	5
M-LFM5032	M50	22,0 - 32,0	50	9,0	57,0	15
M-LFM5035	M50	25,0 - 35,0	54	9,0	52,0	5
M-LFM5038	M50	27,0 - 38,0	58	9,0	61,0	12
M-LFM6338	M63	27,0 - 38,0	66	10,0	54,0	5
M-LFM6342	M63	32,0 - 42,0	64	14,0	65,0	12
M-LFM6344	M63	34,0 - 44,0	64	14,0	65,0	12
M-LFM6348	M63	39,0 - 48,0	66	10,0	54,0	5

Gewindeart PG

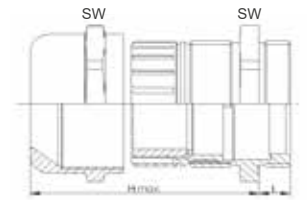
Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	L mm	H mm	VPE Stk. unit pcs.
M-LFP0705	PG07	2,0 - 5,0	14	6,0	28,0	50
M-LFP0706	PG07	3,0 - 6,5	14	6,0	28,0	50
M-LFP0906	PG09	2,0 - 6,0	17	6,0	28,0	50
M-LFP0908	PG09	4,0 - 8,0	17	6,0	28,0	50
M-LFP1107	PG11	3,0 - 7,0	20	6,0	31,0	50
M-LFP1110	PG11	5,0 - 10,0	20	6,0	31,0	50
M-LFP1309	PG13,5	5,0 - 9,0	22	6,5	31,0	50
M-LFP1312	PG13,5	6,0 - 12,0	22	6,5	31,0	50
M-LFP1612	PG16	7,0 - 12,0	24	6,5	34,0	25
M-LFP1614	PG16	10,0 - 14,0	24	6,5	34,0	25
M-LFP2116	PG21	9,0 - 16,0	30	7,0	39,0	25
M-LFP2118	PG21	13,0 - 18,0	30	7,0	39,0	25
M-LFP2920	PG29	12,0 - 20,0	40	8,0	47,0	20
M-LFP2925	PG29	18,0 - 25,0	40	8,0	47,0	20
M-LFP3626	PG36	20,0 - 26,0	50	10,0	57,0	15
M-LFP3632	PG36	22,0 - 32,0	50	10,0	57,0	15
M-LFP4231	PG42	25,0 - 31,0	58	12,0	60,0	12
M-LFP4238	PG42	30,0 - 38,0	58	12,0	60,0	12
M-LFP4835	PG48	29,0 - 35,0	64	14,0	63,0	12
M-LFP4844	PG48	34,0 - 44,0	64	14,0	63,0	12

Auf Anfrage
on requestweitere Gewindearten (Zoll, NPT)
more thread types (GAS , NPT) ✓weitere Gewindelängen
more thread lengths ✓Mehrfacheinsätze
multiple clamping inserts ✓

X-LF



Ausführung construction	Standard standard
Werkstoff material	Edelstahl/PA6 stainless steel/PA6
Dichting sealing	Chloropen CR chloroprene CR
Temperatur temperature	-40°C - +100°C kurz / short +150°C
Schutzart protection	IP68
Besonderheit: specials:	Dichtung über Klemmkäfig sealing by clamping cage



Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	L mm	H mm	VPE Stk. unit pcs.
X-LFM1205	M12	2,0 - 5,0	14	6,0	24,0	50
X-LFM1206	M12	3,0 - 6,5	14	6,0	24,0	50
X-LFM1607	M16	3,0 - 7,0	17	6,5	28,0	50
X-LFM1610	M16	4,0 - 10,0	17	6,0	28,0	50
X-LFM2010	M20	5,0 - 10,0	22	7,5	31,0	50
X-LFM2013	M20	6,0 - 13,0	22	7,5	31,0	50
X-LFM2014	M20	8,0 - 14,0	22	6,0	30,0	50
X-LFM2513	M25	7,0 - 13,0	27	7,5	34,0	25
X-LFM2517	M25	9,0 - 17,0	27	7,5	34,0	25
X-LFM2519	M25	12,0 - 19,0	30	7,0	35,0	25
X-LFM3215	M32	9,0 - 16,0	36	8,0	35,0	25
X-LFM3221	M32	11,0 - 21,0	36	8,0	35,0	25
X-LFM3222	M32	15,0 - 22,0	34	8,0	38,0	10
X-LFM4023	M40	15,0 - 23,0	46	8,0	39,0	10
X-LFM4028	M40	22,0 - 28,0	44	8,0	43,0	10
X-LFM5029	M50	20,0 - 29,0	55	10,0	48,0	5
X-LFM5035	M50	24,0 - 35,0	55	10,0	48,0	5
X-LFM5036	M50	28,0 - 36,0	54	9,0	52,0	5
X-LFM6342	M63	28,0 - 42,0	70	10,0	50,0	5
X-LFM6348	M63	32,0 - 48,0	70	10,0	50,0	5
X-LFM6349	M63	34,0 - 49,0	66	10	58,0	5

Auf Anfrage
on request

weitere Gewindearten (Zoll, NPT) ✓
more thread types (GAS , NPT) ✓

Viton Dichteinsätze +230°C ✓
Viton inserts +230°C ✓

weitere Gewindelängen ✓
more thread lengths ✓

Mehrfacheinsätze ✓
multiple clamping inserts ✓

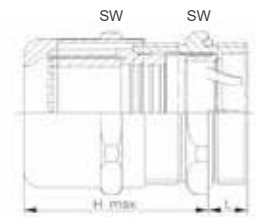
Edelstahl V4A, 1.4571 ✓
stainless steel 1.4571 ✓

Edelstahl V4A, 1.4404 ✓
stainless steel 1.4404 ✓

M-LFKV-EMV



Ausführung construction	Standard EMV standard EMC
Werkstoff material	Messing vernickelt nickel-plated brass
Dichtring sealing	Chloropen CR chloroprene CR
Temperatur temperature	-40°C - +100°C kurz / short +150°C
Schutzart protection	IP68
Besonderheit: specials:	Verschraubung mit Klemmkäfig und EMV-Kralen. Cable gland with clamping cage and EMC-claws.



Standard

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	L mm	H mm	VPE Stk. unit pcs.
M-LFKVM1206EMV	M12	2,0 - 6,5	14	6	22,0	50
M-LFKVM1610EMV	M16	5,0 - 10,0	20	7	29,0	50
M-LFKVM2012EMV	M20	6,0 - 12,0	22	8	27,5	50
M-LFKVM2517EMV	M25	11,0 - 17,0	27	8	30,7	25
M-LFKVM3221EMV	M32	15,0 - 21,0	34	8	38,0	10
M-LFKVM4028EMV	M40	19,0 - 28,0	43	9	43,0	5
M-LFKVM5038EMV	M50	27,0 - 38,0	58	9	54,5	5
M-LFKVM6344EMV	M63	34,0 - 44,0	64	14	57,0	5

langes Gewinde / long thread

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	GL mm	H mm	VPE Stk. unit pcs.
M-LFKVM1206EMVL	M12	2,0 - 6,5	14	12	22,0	50
M-LFKVM1610EMVL	M16	5,0 - 10,0	20	12	29,0	50
M-LFKVM2012EMVL	M20	6,0 - 12,0	22	12	27,5	50
M-LFKVM2517EMVL	M25	11,0 - 17,0	27	15	30,7	25
M-LFKVM3221EMVL	M32	15,0 - 21,0	34	15	38,0	10
M-LFKVM4028EMVL	M40	19,0 - 28,0	43	15	43,0	5
M-LFKVM5038EMVL	M50	27,0 - 38,0	58	15	54,5	5
M-LFKVM6344EMVL	M63	34,0 - 44,0	64	18	57,0	5

Auf Anfrage
on requestViton Dichteinsätze +230°C
viton Inserts +230°Cweitere Materialien (VA)
more materials (INOX)weitere Gewindearten (Zoll, NPT)
more thread types (GAS, NPT)

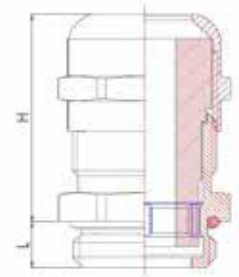
M-LFV



Ausführung construction	Hochtemperatur high temperature
Werkstoff material	Messing vernickelt nickel-plated brass
Dichtring sealing	VITON
Temperatur temperature	-25°C - +230°C
Schutzart protection	IP68

Besonderheit:
specials:

Dichtung über
Klemmkäfig
sealing by
clamping cage



Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	L mm	H mm	VPE Stk. unit pcs.
M-LFVM1207	M12	5,0 - 7,0	14	5	14	50
M-LFVM1607	M16	5,0 - 7,0	17	5,5	17	50
M-LFVM1610	M16	8,0 - 10,0	17	5,5	17	50
M-LFVM2010	M20	7,0 - 10,0	22	6	22	50
M-LFVM2014	M20	11,0 - 14,0	22	6	22	50
M-LFVM2514	M25	11,0 - 14,0	30	7	30	25
M-LFVM2519	M25	15,0 - 19,0	30	7	30	25
M-LFVM3218	M32	15,0 - 18,0	34	8	34	25
M-LFVM3222	M32	19,0 - 22,0	34	8	34	25
M-LFVM4024	M40	21,0 - 24,0	44	8	44	10
M-LFVM4028	M40	25,0 - 28,0	44	8	44	10

Gewindeart PG

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	GL mm	H mm	VPE Stk. unit pcs.
M-LFVP0707	PG07	5,0 - 7,0	14	5	14	100
M-LFVP0907	PG09	5,0 - 7,0	17	5,5	17	50
M-LFVP0910	PG09	8,0 - 10,0	17	5,5	17	50
M-LFVP1107	PG11	5,0 - 7,0	20	6	20	50
M-LFVP1110	PG11	8,0 - 10,0	20	6	20	50
M-LFVP1310	PG13,5	7,0 - 10,0	22	7	22	25
M-LFVP1314	PG13,5	11,0 - 14,0	22	7	22	25
M-LFVP2114	PG21	11,0 - 14,0	30	8	30	25
M-LFVP2119	PG21	15,0 - 19,0	30	8	30	25
M-LFVP2924	PG29	21,0 - 24,0	40	8	40	25
M-LFVP2928	PG29	25,0 - 28,0	40	8	40	25

Auf Anfrage
on request

weitere Materialien (VA)
more materials (INOX)



weitere Gewindearten (Zoll, NPT)
more thread types (GAS , NPT)



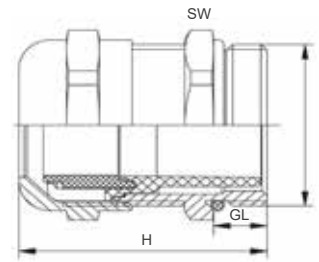
M-LHSK-PVDF



Ausführung construction	Hochtemperatur high temperature
Werkstoff material	Messing vernickelt nickel-plated brass
Dichtring sealing	PVDF
Temperatur temperature	-35°C - +150°C
Schutzart protection	IP68

Besonderheit:
specials:

Verschraubung mit
Klemmkäfig
Cable gland with
clamping cage



Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	GL mm	H mm	VPE Stk. unit pcs.
M-LHSKM1206	M12	3,0 - 6,5	14	6,5	19,0	50
M-LHSKM1205	M12	2,0 - 5,0	14	6,5	19,0	50
M-LHSKM1608	M16	4,0 - 8,0	17	6,0	21,0	50
M-LHSKM1606	M16	2,0 - 6,0	17	6,0	21,0	50
M-LHSKM1610	M16	5,0 - 10,0	20	6,0	22,0	50
M-LHSKM2014	M20	10,0 - 14,0	24	6,0	24,0	50
M-LHSKM2012	M20	6,0 - 12,0	22	6,0	23,0	50
M-LHSKM2009	M20	5,0 - 9,0	22	6,0	23,0	50
M-LHSKM2518	M25	13,0 - 18,0	30	7,0	26,0	25
M-LHSKM2516	M25	9,0 - 16,0	30	7,0	26,0	25
M-LHSKM3225	M32	18,0 - 25,0	40	8,0	31,0	25
M-LHSKM3220	M32	13,0 - 20,0	40	8,0	31,0	25
M-LHSKM4032	M40	22,0 - 32,0	50	8,0	37,0	10
M-LHSKM4026	M40	20,0 - 26,0	50	8,0	37,0	10

langes Gewinde / long thread

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	GL mm	H mm	VPE Stk. unit pcs.
M-LHSKM1206L	M12	3,0 - 6,5	14	10	19,0	50
M-LHSKM1205L	M12	2,0 - 5,0	14	10	19,0	50
M-LHSKM1608L	M16	4,0 - 8,0	17	10	21,0	50
M-LHSKM1606L	M16	2,0 - 6,0	17	10	21,0	50
M-LHSKM1610L	M16	5,0 - 10,0	20	10	22,0	50
M-LHSKM2014L	M20	10,0 - 14,0	24	10	24,0	50
M-LHSKM2012L	M20	6,0 - 12,0	22	10	23,0	50
M-LHSKM2009L	M20	5,0 - 9,0	22	10	23,0	50
M-LHSKM2518L	M25	13,0 - 18,0	30	12	26,0	25
M-LHSKM2516L	M25	9,0 - 16,0	30	12	26,0	25
M-LHSKM3225L	M32	18,0 - 25,0	40	12	31,0	25
M-LHSKM3220L	M32	13,0 - 20,0	40	12	31,0	25
M-LHSKM4032L	M40	22,0 - 32,0	50	15	37,0	10
M-LHSKM4026L	M40	20,0 - 26,0	50	15	37,0	10

Auf Anfrage
on request

weitere Gewindearten (Zoll, NPT)
more thread types (GAS , NPT) ✓

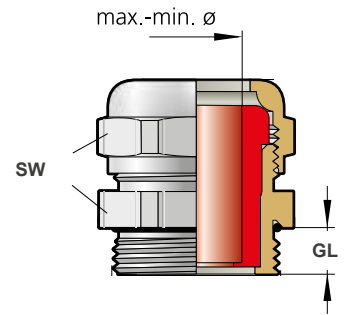
weitere Gewindelängen
more thread lengths ✓

weitere Materialien (VA)
more materials (INOX) ✓

M-UNI-DICHT



Ausführung construction	Standard standard
Werkstoff material	Messing vernickelt nickel-plated brass
Dichtring sealing	TPE
Temperatur temperature	-40°C - +130°C
Schutzart protection	IP68
Besonderheit: specials:	Verschraubung mit Vollgummi-Dicht- einsatz. Cable gland with solid rubber clamping insert.



Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	GL mm	VPE Stk. unit pcs.
M-UNIM1206	M12	4,0 - 6,5	18	5,0	50
M-UNIM1208	M12	5,0 - 8,0	17	5,0	50
M-UNIM1209	M12	6,5 - 9,0	17	5,0	50
M-UNIM1606	M16	4,0 - 6,5	18	6,0	50
M-UNIM1608	M16	5,0 - 8,0	18	6,0	50
M-UNIM1609	M16	6,5 - 9,5	18	6,0	50
M-UNIM1610	M16	7,0 - 10,5	20	6,0	50
M-UNIM1613	M16	9,0 - 13,0	22	6,0	50
M-UNIM2006	M20	4,0 - 6,5	22	6,5	50
M-UNIM2008	M20	5,0 - 8,0	22	6,5	50
M-UNIM2009	M20	6,5 - 9,5	22	6,5	50
M-UNIM2010	M20	7,0 - 10,5	22	6,5	50
M-UNIM2013	M20	9,0 - 13,0	22	6,5	50
M-UNIM2015	M20	11,5 - 15,5	24	6,5	50
M-UNIM2018	M20	14,0 - 18,0	30	6,5	25
M-UNIM2020	M20	17,0 - 20,5	30	6,5	25
M-UNIM2506	M25	4,0 - 6,5	28	7,5	50
M-UNIM2508	M25	5,0 - 8,0	28	7,5	50
M-UNIM2509	M25	6,5 - 9,5	28	7,5	50
M-UNIM2510	M25	7,0 - 10,5	28	7,5	50
M-UNIM2513	M25	9,0 - 13,0	28	7,5	50
M-UNIM2515	M25	11,5 - 15,5	28	7,5	50
M-UNIM2518	M25	14,0 - 18,0	30	7,5	25
M-UNIM2520	M25	17,0 - 20,5	30	7,5	25
M-UNIM3210	M32	7,0 - 10,5	35	8,0	25
M-UNIM3213	M32	9,0 - 13,0	35	8,0	25
M-UNIM3215	M32	11,5 - 15,5	35	8,0	25
M-UNIM3218	M32	14,0 - 18,0	35	8,0	25
M-UNIM3220	M32	17,0 - 20,5	35	8,0	25
M-UNIM3225	M32	20,0 - 25,0	40	8,0	10
M-UNIM3228	M32	24,0 - 28,0	40	8,0	10
M-UNIM3232	M32	27,0 - 32,0	40	8,0	5
M-UNIM3234	M32	29,0 - 34,0	50	8,0	5
M-UNIM3236	M32	32,0 - 36,0	50	8,0	5

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	GL mm	VPE Stk. unit pcs.
M-UNIM4015	M40	11,5 - 15,5	43	8,0	10
M-UNIM4018	M40	14,0 - 18,0	43	8,0	10
M-UNIM4020	M40	17,0 - 20,5	43	8,0	10
M-UNIM4025	M40	20,0 - 25,0	43	8,0	10
M-UNIM4028	M40	24,0 - 28,0	43	8,0	10
M-UNIM4032	M40	27,0 - 32,0	50	9,0	5
M-UNIM4034	M40	29,0 - 34,0	50	9,0	5
M-UNIM4036	M40	32,0 - 36,0	50	9,0	5
M-UNIM5032	M50	27,0 - 32,0	54	10,0	5
M-UNIM5034	M50	29,0 - 34,0	54	10,0	5
M-UNIM5036	M50	32,0 - 36,0	54	10,0	5
M-UNIM5038	M50	33,0 - 38,0	57	10,0	5
M-UNIM5040	M50	36,0 - 40,0	57	10,0	5
M-UNIM6344	M63	39,0 - 44,0	68	10,0	5
M-UNIM6345	M63	40,0 - 45,0	81	16,0	1
M-UNIM6351	M63	45,0 - 51,0	81	16,0	1
M-UNIM6356	M63	51,0 - 56,0	81	16,0	1
M-UNIM7245	M72	40,0 - 45,0	81	15,0	1
M-UNIM7251	M72	45,0 - 51,0	81	15,0	1
M-UNIM7256	M72	51,0 - 56,0	81	15,0	1
M-UNIM7547	M75	42,0 - 47,0	81	15,0	1
M-UNIM7552	M75	45,0 - 52,0	81	15,0	1
M-UNIM7555	M75	51,0 - 55,0	81	15,0	1
M-UNIM7558	M75	54,0 - 58,0	81	15,0	1
M-UNIM8057	M80	50,0 - 57,0	95	15,0	1
M-UNIM8064	M80	58,0 - 64,0	95	15,0	1
M-UNIM8070	M80	63,0 - 70,0	95	15,0	1
M-UNIM9076	M90	69,0 - 76,0	120	20,0	1
M-UNIM9085	M90	75,0 - 85,0	120	20,0	1
M-UNIM10076	M100	69,0 - 76,0	120	25,0	1
M-UNIM10085	M100	75,0 - 85,0	120	25,0	1
M-UNIM10090	M100	76,0 - 90,0	120	25,0	1
M-UNIM120100	M120	90,0 - 100,0	145	30,0	1
M-UNIM120110	M120	100,0 - 110,0	145	30,0	1

Auf Anfrage
on request

Mehrfacheinsätze
multiple clamping inserts ✓

ungebohrte Dichteinsätze
undrilled inserts ✓

TPE-V Einsatz
TPE-V insert ✓

Silikon Einsatz
silicone insert ✓

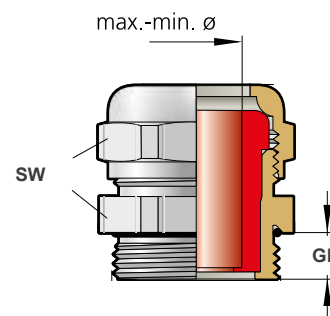
weitere Gewindelängen
more thread lengths ✓

EMV Ausführung
EMC type ✓

M-UNI-DICHT



Ausführung construction	Standard standard
Werkstoff material	Messing vernickelt nickel-plated brass
Dichtring sealing	TPE
Temperatur temperature	-40°C - +130°C
Schutzart protection	IP68
Besonderheit: specials:	Verschraubung mit Vollgummi-Dicht- einsatz. Cable gland with solid rubber clamping insert.



Gewindeart PG

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	GL mm	VPE Stk. unit pcs.
M-UNIP0706	PG7	4,0 - 6,5	14	5,0	50
M-UNIP0708	PG7	5,0 - 8,0	17	5,0	50
M-UNIP0709	PG7	6,5 - 9,5	17	5,0	50
M-UNIP0710	PG7	7,0 - 10,5	20	5,5	50
M-UNIP0906	PG9	4,0 - 6,5	17	6,0	50
M-UNIP0908	PG9	5,0 - 8,0	17	6,0	50
M-UNIP0909	PG9	6,5 - 9,5	17	6,0	50
M-UNIP0910	PG9	7,0 - 10,5	20	6,0	50
M-UNIP0913	PG9	9,0 - 13,0	22	6,0	50
M-UNIP1106	PG11	4,0 - 6,5	20	6,0	50
M-UNIP1108	PG11	5,0 - 8,0	20	6,0	50
M-UNIP1109	PG11	6,5 - 9,5	20	6,0	50
M-UNIP1110	PG11	7,0 - 10,5	20	6,0	50
M-UNIP1113	PG11	9,0 - 13,0	22	6,0	50
M-UNIP1115	PG11	11,5 - 15,5	24	6,0	50
M-UNIP1306	PG13,5	4,0 - 6,5	22	6,5	50
M-UNIP1308	PG13,5	5,0 - 8,0	22	6,5	50
M-UNIP1309	PG13,5	6,5 - 9,5	22	6,5	50
M-UNIP1310	PG13,5	7,0 - 10,5	22	6,5	50
M-UNIP1313	PG13,5	9,0 - 13,0	22	6,5	50
M-UNIP1315	PG13,5	11,5 - 15,5	24	6,5	50
M-UNIP1318	PG13,5	14,0 - 18,0	30	6,5	25
M-UNIP1320	PG13,5	17,0 - 20,5	30	6,5	25
M-UNIP1606	PG16	4,0 - 6,5	24	6,5	50
M-UNIP1608	PG16	5,0 - 8,0	24	6,5	50
M-UNIP1609	PG16	6,5 - 9,5	24	6,5	50
M-UNIP1610	PG16	7,0 - 10,5	24	6,5	50
M-UNIP1613	PG16	9,0 - 13,0	24	6,5	50
M-UNIP1615	PG16	11,5 - 15,5	24	6,5	50
M-UNIP1618	PG16	14,0 - 18,0	30	6,5	25
M-UNIP1620	PG16	17,0 - 20,5	30	6,5	25
M-UNIP1625	PG16	20,0 - 25,0	40	6,5	10
M-UNIP1628	PG16	24,0 - 28,0	40	6,5	10

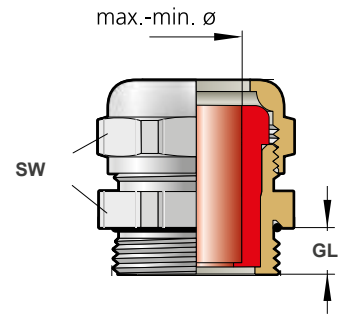
Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	GL mm	VPE Stk. unit pcs.
M-UNIP2110	PG21	7,0 - 10,5	30	7,0	25
M-UNIP2113	PG21	9,0 - 13,0	30	7,0	25
M-UNIP2115	PG21	11,5 - 15,5	30	7,0	25
M-UNIP2118	PG21	14,0 - 18,0	30	7,0	25
M-UNIP2120	PG21	17,0 - 20,5	30	7,0	25
M-UNIP2125	PG21	20,0 - 25,0	40	7,0	10
M-UNIP2128	PG21	24,0 - 28,0	40	7,0	10
M-UNIP2132	PG21	27,0 - 32,0	50	7,0	5
M-UNIP2134	PG21	29,0 - 34,0	50	7,0	5
M-UNIP2136	PG21	32,0 - 36,0	50	7,0	5
M-UNIP2913	PG29	9,0 - 13,0	40	8,0	10
M-UNIP2915	PG29	11,5 - 15,5	40	8,0	10
M-UNIP2918	PG29	14,0 - 18,0	40	8,0	10
M-UNIP2920	PG29	17,0 - 20,5	40	8,0	10
M-UNIP2925	PG29	20,0 - 25,0	40	8,0	10
M-UNIP2928	PG29	24,0 - 28,0	40	8,0	10
M-UNIP2932	PG29	27,0 - 32,0	50	8,0	5
M-UNIP2934	PG29	29,0 - 34,0	50	8,0	5
M-UNIP2936	PG29	32,0 - 36,0	50	8,0	5
M-UNIP3632	PG36	27,0 - 32,0	50	9,0	10
M-UNIP3634	PG36	29,0 - 34,0	50	9,0	10
M-UNIP3636	PG36	32,0 - 36,0	50	9,0	10
M-UNIP3638	PG36	33,0 - 38,0	57	9,0	5
M-UNIP3640	PG36	36,0 - 40,0	57	9,0	5
M-UNIP4236	PG42	32,0 - 36,0	57	10,0	5
M-UNIP4240	PG42	36,0 - 40,0	57	10,0	5
M-UNIP4844	PG48	39,0 - 44,0	64	10,0	5
M-UNIP4847	PG48	42,0 - 47,0	81	10,0	1
M-UNIP4852	PG48	45,0 - 52,0	81	10,0	1
M-UNIP4855	PG48	51,0 - 55,0	81	10,0	1
M-UNIP4858	PG48	54,0 - 58,0	81	10,0	1
M-UNIP4864	PG48	58,0 - 64,0	95	10,0	1
M-UNIP4870	PG48	63,0 - 70,0	95	10,0	1

Auf Anfrage
on requestMehrfacheinsätze
multiple clamping inserts ✓Silikon Einsatz
silicone insert ✓ungebohrte Dichteinsätze
undrilled inserts ✓weitere Gewindelängen
more thread lengths ✓TPE-V Einsatz
TPE-V insert ✓EMV Ausführung
EMC type ✓

X-UNI-DICHT



Ausführung construction	Standard standard
Werkstoff material	Edelstahl stainless steel
Dichtring sealing	TPE
Temperatur temperature	-40°C - +130°C
Schutzart protection	IP68
Besonderheit: specials:	VA-Verschraubung mit Vollgummi Dichteinsatz. Stainless cable gland with solid rubber clamping insert.



Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	GL mm	VPE Stk. unit pcs.
X-UNIM1004	M10	1,0 - 4,5	14	5,0	1
X-UNIM1006	M10	4,0 - 6,5	14	5,0	1
X-UNIM1204	M12	1,0 - 4,5	14	6,0	1
X-UNIM1206	M12	4,0 - 6,5	14	6,0	1
X-UNIM1606	M16	4,0 - 6,5	17	6,5	1
X-UNIM1608	M16	5,0 - 8,0	17	6,5	1
X-UNIM1609	M16	6,5 - 9,5	17	6,5	1
X-UNIM2006	M20	4,0 - 6,5	22	7,0	1
X-UNIM2008	M20	5,0 - 8,0	22	7,0	1
X-UNIM2009	M20	6,5 - 9,5	22	7,0	1
X-UNIM2010	M20	7,0 - 10,5	22	7,0	1
X-UNIM2013	M20	9,0 - 13,0	22	7,0	1
X-UNIM2506	M25	4,0 - 6,5	27	7,5	1
X-UNIM2508	M25	5,0 - 8,0	27	7,5	1
X-UNIM2509	M25	6,5 - 9,5	27	7,5	1
X-UNIM2510	M25	7,0 - 10,5	27	7,5	1
X-UNIM2513	M25	9,0 - 13,0	27	7,5	1
X-UNIM2515	M25	11,5 - 15,5	27	7,5	1

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	GL mm	VPE Stk. unit pcs.
X-UNIM3210	M32	7,0 - 10,5	36	8,0	1
X-UNIM3213	M32	9,0 - 13,0	36	8,0	1
X-UNIM3215	M32	11,5 - 15,5	36	8,0	1
X-UNIM3218	M32	14,0 - 18,0	36	8,0	1
X-UNIM3221	M32	17,0 - 21,0	36	8,0	1
X-UNIM4015	M40	11,5 - 15,5	46	8,0	1
X-UNIM4018	M40	14,0 - 18,0	46	8,0	1
X-UNIM4021	M40	17,0 - 21,0	46	8,0	1
X-UNIM4025	M40	20,0 - 25,0	46	8,0	1
X-UNIM4028	M40	24,0 - 28,0	46	8,0	1
X-UNIM4032	M40	27,0 - 32,0	50	8,0	1
X-UNIM5032	M50	27,0 - 32,0	55	10,0	1
X-UNIM5034	M50	29,0 - 34,0	55	10,0	1
X-UNIM5036	M50	32,0 - 36,0	55	10,0	1
X-UNIM5041	M50	36,0 - 41,0	60	10,0	1
X-UNIM6345	M63	39,5 - 45,0	70	10,0	1
X-UNIM6352	M63	47,0 - 52,0	70	10,0	1

Auf Anfrage
on request

Mehrfacheinsätze
multiple clamping inserts ✓

Silikon Einsatz
silicone insert ✓

ungebohrte Dichteinsätze
undrilled inserts ✓

weitere Gewindelängen
more thread lengths ✓

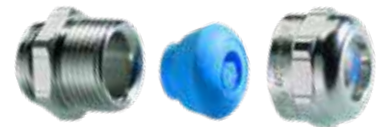
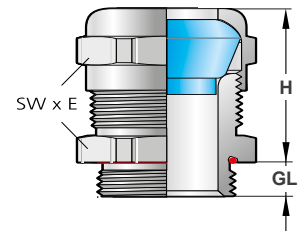
TPE-V Einsatz
TPE-V insert ✓

EMV Ausführung
EMC type ✓

M-Blueglobe



Ausführung construction	große Klemmbereiche large clamping range
Werkstoff material	Messing vernickelt nickel-plated brass
Dichtring sealing	TPE
Temperatur temperature	-40°C - +130°C
Schutzart protection	IP69K
Besonderheit: specials:	Verschraubung mit Vollgummi-Dicht- einsatz. Cable gland with solid rubber clamping insert.



Standard

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	GL mm	H mm	VPE Stk. unit pcs.
M-BGM806	M8	3,0 - 6,0	11	5,0	22,0	50
M-BGM1006	M10	1,5 - 6,0	13	6,0	20,0	50
M-BGM1208	M12	2,0 - 8,0	17	5,0	21,0	50
M-BGM1611	M16	4,0 - 11,0	20	6,0	25,0	50
M-BGM2014	M20	5,0 - 14,0	24	6,5	29,0	50
M-BGM2520	M25	11,0 - 20,0	30	7,5	30,0	50
M-BGM3225	M32	15,0 - 25,0	36	8,0	32,0	25
M-BGM4032	M40	20,0 - 32,0	45	8,0	35,0	10
M-BGM5042	M50	31,0 - 42,0	57	10,0	39,0	5
M-BGM6354	M63	41,0 - 54,0	68	10,0	40,0	5
M-BGM7565	M75	54,0 - 65,0	81	15,0	47,0	5
M-BGM8577	M85	65,0 - 77,0	95	15,0	49,0	1

langes Gewinde / long thread

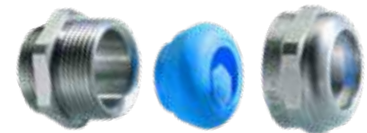
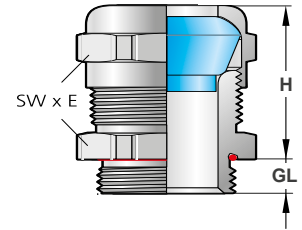
Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	GL mm	H mm	VPE Stk. unit pcs.
M-BGM1208L	M12	2,0 - 8,0	17	15,0	21,0	50
M-BGM1611L	M16	4,0 - 11,0	20	15,0	25,0	50
M-BGM2014L	M20	5,0 - 14,0	24	15,0	29,0	50
M-BGM2520L	M25	11,0 - 20,0	30	15,0	30,0	50
M-BGM3225L	M32	15,0 - 25,0	36	15,0	32,0	25
M-BGM4032L	M40	20,0 - 32,0	45	15,0	35,0	10
M-BGM5042L	M50	31,0 - 42,0	57	15,0	39,0	5
M-BGM6354L	M63	41,0 - 54,0	68	15,0	40,0	5

Auf Anfrage
on requestSilikon Einsatz ✓
silicone insertEMV Ausführung ✓
EMC option

X-Blueglobe



Ausführung construction	große Klemmbereiche large clamping range
Werkstoff material	Edelstahl stainless steel
Dichtring sealing	TPE
Temperatur temperature	-40°C - +130°C
Schutzart protection	IP69K
Besonderheit: specials:	Verschraubung mit Vollgummi-Dicht- einsatz. Cable gland with solid rubber clamping insert.



Standard

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	GL mm	H mm	VPE Stk. unit pcs.
X-BGM1208	M12	2,0 - 8,0	17	5,0	21,0	50
X-BGM1611	M16	4,0 - 11,0	20	6,0	25,0	50
X-BG2014	M20	5,0 - 14,0	24	6,5	29,0	50
X-BGM2520	M25	11,0 - 20,0	30	7,5	30,0	50
X-BGM3225	M32	15,0 - 25,0	36	8,0	32,0	25
X-BGM4032	M40	20,0 - 32,0	45	8,0	35,0	10
X-BGM5042	M50	31,0 - 42,0	57	10,0	39,0	5
X-BGM6354	M63	41,0 - 54,0	68	10,0	40,0	5
X-BGM7565	M75	54,0 - 65,0	81	15,0	47,0	5
X-BGM8577	M85	65,0 - 77,0	95	15,0	49,0	1

langes Gewinde / long thread

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	GL mm	H mm	VPE Stk. unit pcs.
X-BGM1208L	M12	2,0 - 8,0	17	15,0	21,0	50
X-BG1M611L	M16	4,0 - 11,0	20	15,0	25,0	50
X-BGM2014L	M20	5,0 - 14,0	24	15,0	29,0	50
X-BGM2520L	M25	11,0 - 20,0	30	15,0	30,0	50
X-BGM3225L	M32	15,0 - 25,0	36	15,0	32,0	25
X-BGM2032L	M40	20,0 - 32,0	45	15,0	35,0	10
X-BGM5042L	M50	31,0 - 42,0	57	15,0	39,0	5
X-BGM6354L	M63	41,0 - 54,0	68	15,0	40,0	5

Auf Anfrage
on request

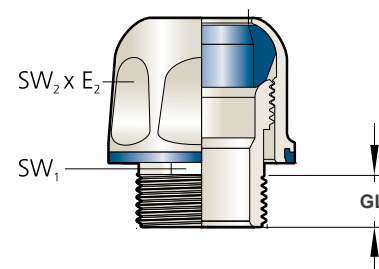
Silikon Einsatz ✓
silicone insert

EMV Ausführung ✓
EMC option

X-Blueclean



Ausführung construction	Hygiene / Lebensmittel hygienic / food
Werkstoff material	Edelstahl stainless steel
Dichtring sealing	TPU SI (HTS)
Temperatur temperature	-40°C - +85°C (TPU) -45°C - +150°C (HTS)
Schutzart protection	IP69K
Besonderheit: specials:	Verschraubung mit Vollgummi-Dicht- einsatz. Cable gland with solid rubber clamping insert.



Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	GL mm	H mm	VPE Stk. unit pcs.
X-BGCM0804	M8	4,0 - 4,5	7	4,5	15	5
X-BGCM1007	M10	5,0 - 7,0	10	6,0	19	5
X-BGCM1205	M12	3,5 - 5,0	10	7,0	19	5
X-BGCM1207	M12	5,0 - 7,0	10	7,0	19	5
X-BGCM1609	M16	7,0 - 9,0	14	9,0	21	5
X-BGCM2012	M20	9,0 - 12,0	9	9,0	27	5
X-BGCM2012L	M20	9,0 - 12,0	19	15,0	27	5
X-BGCM2515	M25	12,0 - 15,0	24	10,0	27	5
X-BGCM2518	M25	15,0 - 18,0	24	10,0	27	5
X-BGCM2518L	M25	15,0 - 18,0	24	15,0	27	5
X-BGCM3221	M32	18,0 - 21,0	30	11,0	27	5
X-BGCM3223	M32	20,0 - 23,0	30	11,0	27	5
X-BGCM4026	M40	23,0 - 26,0	36	11,0	32	4
X-BGCM4029	M40	26,0 - 29,0	36	11,0	32	4

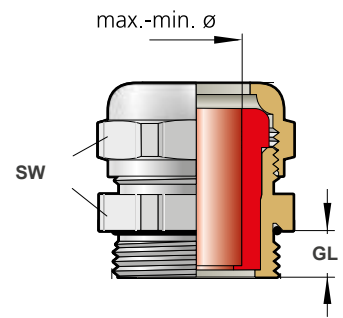
HTS

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	GL mm	H mm	VPE Stk. unit pcs.
X-BGCM0804HTS	M8	4,0 - 4,5	7	4,5	15	5
X-BGCM1007HTS	M10	5,0 - 7,0	10	6,0	19	5
X-BGCM1207HTS	M12	5,0 - 7,0	10	7,0	19	5
X-BGCM1609HTS	M16	7,0 - 9,0	14	9,0	21	5
X-BGCM2012HTS	M20	9,0 - 12,0	9	9,0	27	5
X-BGCM2515HTS	M25	12,0 - 15,0	24	10,0	27	5
X-BGCM2518HTS	M25	15,0 - 18,0	24	10,0	27	5
X-BGCM3223HTS	M32	20,0 - 23,0	30	11,0	27	5
X-BGCM4029HTS	M40	26,0 - 29,0	36	11,0	32	4
X-BGCM5037HTS	M50	35,0 - 37,0	46	11,0	34	1
X-BGCM6345HTS	M63	43,0 - 45,0	60	11,0	33,0	1
X-BGCM6356HTS	M63	54,5 - 56,5	60	11,0	33,0	1

M-UNIEX



Ausführung construction	EX
Werkstoff material	Messing vernickelt nickel-plated brass
Dichtring sealing	TPE
Temperatur temperature	-40°C - +130°C
Schutzart protection	IP68
Besonderheit: specials:	Verschraubung mit Vollgummi-Dicht- einsatz. Cable gland with solid rubber clamping insert.



Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	für Kabel for cable	SW mm	GL mm	VPE Stk. unit pcs.
M-UNIEXM1606	M16	5,0 - 6,5	20	6,0	50
M-UNIEXM1608	M16	6,0 - 8,5	20	6,0	50
M-UNIEXM1611	M16	9,0 - 11,5	20	6,0	50
M-UNIEXM2009	M20	7,5 - 9,0	22	6,5	50
M-UNIEXM2012	M20	9,5 - 12,0	22	6,5	50
M-UNIEXM2014	M20	11,0 - 14,0	22	6,5	25
M-UNIEXM2015	M20	12,5 - 15,5	24	6,5	25
M-UNIEXM2511	M25	9,0 - 11,0	30	7,5	50
M-UNIEXM2514	M25	11,5 - 14,0	30	7,5	50
M-UNIEXM2517	M25	14,5 - 17,0	30	7,5	50
M-UNIEXM2520	M25	17,5 - 20,5	30	7,5	50
M-UNIEXM3216	M32	14,0 - 16,5	36	8,0	25
M-UNIEXM3219	M32	17,0 - 19,5	36	8,0	25
M-UNIEXM3222	M32	20,0 - 22,5	36	8,0	25
M-UNIEXM3226	M32	23,0 - 26,0	36	8,0	25
M-UNIEXM4024	M40	21,5 - 24,0	45	8,0	10
M-UNIEXM4027	M40	24,5 - 27,0	45	8,0	10
M-UNIEXM4030	M40	27,5 - 30,0	45	8,0	10
M-UNIEXM4033	M40	30,5 - 33,5	45	8,0	10

Auf Anfrage
on request

Silikon Einsatz ✓
silicone insert

TPE-V Einsatz ✓
TPE-V insert

Edelstahl Ausführung ✓
stainless steel

EMV Ausführung ✓
EMC type

Mehrfacheinsätze ✓
multiple clamping inserts

ungebohrte Dichteinsätze ✓
undrilled inserts

weitere Gewindelängen ✓
more thread lengths



K-GM

Ausführung construction	Gegenmutter locknut
Werkstoff material	Polyamid 6 polyamide 6
Temperatur temperature	-30°C - +130°C
Schutzart protection	-
Gemäß according to	-



Gewindeart metrisch

Art. Nr. hellgrau art. no. light grey RAL 7035	Art. Nr. grau art. no. grey RAL 7001	Art. Nr. schwarz art. no. black RAL 9005	Gewinde thread	SW mm	H mm	VPE Stk. unit pcs.
K-GMM12G	K-GMM12	K-GMM12B	M12	17	5,5	100
K-GMM16G	K-GMM16	K-GMM16B	M16	22	5,5	100
K-GMM20G	K-GMM20	K-GMM20B	M20	26	6,5	100
K-GMM25G	K-GMM25	K-GMM25B	M25	32	7,0	100
K-GMM32G	K-GMM32	K-GMM32B	M32	41	7,0	50
K-GMM40G	K-GMM40	K-GMM40B	M40	50	7,0	25
K-GMM50G	K-GMM50	K-GMM50B	M50	60	8,5	10
K-GMM63G	K-GMM63	K-GMM63B	M63	75	8,5	5

Gewindeart PG

Art. Nr. hellgrau art. no. light grey RAL 7035	Art. Nr. grau art. no. grey RAL 7001	Art. Nr. schwarz art. no. black RAL 9005	Gewinde thread	SW mm	H mm	VPE Stk. unit pcs.
K-GMPG07G	K-GMPG07	K-GMPG07B	PG07	19	5,0	100
K-GMPG09G	K-GMPG09	K-GMPG09B	PG09	22	6,0	100
K-GMPG11G	K-GMPG11	K-GMPG11B	PG11	24	6,0	100
K-GMPG13G	K-GMPG13	K-GMPG13B	PG13,5	27	6,0	100
K-GMPG16G	K-GMPG16	K-GMPG16B	PG16	30	6,0	100
K-GMPG21G	K-GMPG21	K-GMPG21B	PG21	36	7,0	50
K-GMPG29G	K-GMPG29	K-GMPG29B	PG29	46	7,0	25
K-GMPG36G	K-GMPG36	K-GMPG36B	PG36	60	8,0	10
K-GMPG42G	K-GMPG42	K-GMPG42B	PG42	65	8,0	5
K-GMPG48G	K-GMPG48	K-GMPG48B	PG48	70	8,0	5

Gewindeart Zoll

Art. Nr. hellgrau art. no. light grey RAL 7035	Art. Nr. grau art. no. grey RAL 7001	Art. Nr. schwarz art. no. black RAL 9005	Gewinde thread	SW mm	H mm	VPE Stk. unit pcs.
K-GMZ014G	K-GMZ014	K-GMZ014N	1/4"	19	5,0	100
K-GMZ038G	K-GMZ038	K-GMZ038N	3/8"	22	5,0	100
K-GMZ012G	K-GMZ012	K-GMZ012N	1/2"	27	6,0	100
K-GMZ034G	K-GMZ034	K-GMZ034N	3/4"	32	7,0	50
K-GMZ100G	K-GMZ100	K-GMZ100N	1"	39	7,0	50
K-GMZ114G	-	-	1 1/4"	52	8,0	25
-	K-GMZ114	K-GMZ114N	1 1/4"	50	8,0	25
K-GMZ112G	-	-	1 1/2"	60	8,0	25
-	K-GMZ112	K-GMZ112N	1 1/2"	56	8,0	25
K-GMZ200G	-	-	2"	70	8,0	25
-	K-GMZ200	K-GMZ200N	2"	70	8,5	25

K-RED / K-ERW



Ausführung construction	Reduzierung Erweiterung reducer enlarger
Werkstoff material	Polyamid 6 polyamide 6
Temperatur temperature	-30°C - +120°C
Schutzart protection	-
Gemäß according to	-



Form B
shape B



Form A
shape A

grau RAL 7035
grey RAL 7035

Art. Nr. art. no.	AG male	IG female	L mm	GL/AG mm	SW mm	Form form	VPE Stk. unit pcs.
K-REDM1612	M16	M12	12,0	8,0	24	B	100
K-REDM2012	M20	M12	12,0	8,0	24	B	100
K-REDM2016	M20	M16	12,0	8,0	24	B	100
K-REDM2512	M25	M12	14,0	8,0	29	B	100
K-REDM2516	M25	M16	14,0	8,0	29	B	100
K-REDM2520	M25	M20	14,0	8,0	29	B	100
K-REDM3212	M32	M12	16,0	10,0	36	B	50
K-REDM3216	M32	M16	16,0	10,0	36	B	50
K-REDM3220	M32	M20	16,0	10,0	36	B	50
K-REDM3225	M32	M25	16,0	10,0	36	B	50
K-REDM4016	M40	M16	16,0	10,0	46	B	50
K-REDM4020	M40	M20	16,0	10,0	46	B	50
K-REDM4025	M40	M25	16,0	10,0	46	B	50
K-REDM4032	M40	M32	16,0	10,0	55	B	50
K-REDM5020	M50	M20	18,0	12,0	55	B	25
K-REDM5025	M50	M25	18,0	12,0	55	B	25
K-REDM5032	M50	M32	18,0	12,0	55	B	25
K-REDM5040	M50	M40	18,0	12,0	55	B	25
K-REDM6325	M63	M25	18,0	12,0	68	B	25
K-REDM6332	M63	M32	18,0	12,0	68	B	25
K-REDM6340	M63	M40	18,0	12,0	68	B	25
K-REDM6350	M63	M50	18,0	12,0	68	B	25

Aussengewinde (AG) Metrisch
Innengewinde (IG) Metrisch

male thread (AG) metric
female thread (IG) metric

Art. Nr. art. no.	AG male	IG female	L mm	GL/AG mm	SW mm	VPE Stk. unit pcs.
K-ERWM1216	M12	M16	20,5	8,0	20	100
K-ERWM1620	M16	M20	20,5	8,0	24	100
K-ERWM2025	M20	M25	21,0	8,0	30	100
K-ERWM2532	M25	M32	23,0	8,0	37	50
K-ERWM3240	M32	M40	25,0	10,0	45	50

Aussengewinde (AG) Metrisch
Innengewinde (IG) Metrisch

male thread (AG) metric
female thread (IG) metric

Art. Nr. art. no.	AG male	IG female	L mm	GL/AG mm	SW mm	Form form	VPE Stk. unit pcs.
K-REDPG0907	PG09	PG07	20,5	8,0	19	A	100
K-REDPG1107	PG11	PG07	14,0	8,0	22	B	100
K-REDPG1109	PG11	PG09	22,5	8,0	22	A	100
K-REDPG1307	PG13,5	PG07	15,0	9,0	24	B	100
K-REDPG1309	PG13,5	PG09	15,0	9,0	24	B	100
K-REDPG1311	PG13,5	PG11	24,0	9,0	24	A	100
K-REDPG1609	PG16	PG09	16,0	10,0	27	B	100
K-REDPG1611	PG16	PG11	16,0	10,0	27	B	100
K-REDPG1613	PG16	PG13,5	27,0	10,0	27	A	100
K-REDPG2111	PG21	PG11	16,0	11,0	32	B	100
K-REDPG2113	PG21	PG13,5	16,0	11,0	32	B	100
K-REDPG2116	PG21	PG16	16,0	11,0	32	B	100
K-REDPG2913	PG29	PG13,5	17,0	11,0	40	B	50
K-REDPG2916	PG29	PG16	17,0	11,0	40	B	50
K-REDPG2921	PG29	PG21	17,0	11,0	40	B	50
K-REDPG3616	PG36	PG16	19,0	13,0	50	B	50
K-REDPG3621	PG36	PG21	19,0	13,0	50	B	50
K-REDPG3629	PG36	PG29	24,0	18,0	50	B	50
K-REDPG4221	PG42	PG21	24,0	18,0	55	B	25
K-REDPG4229	PG42	PG29	24,0	18,0	55	B	25
K-REDPG4236	PG42	PG36	24,0	18,0	55	B	25
K-REDPG4829	PG48	PG29	24,0	18,0	60	B	25
K-REDPG4836	PG48	PG36	20,0	14,0	60	B	25
K-REDPG4842	PG48	PG42	23,0	17,0	60	B	25

Aussengewinde (AG) PG
Innengewinde (IG) PG

male thread (AG) PG
female thread (IG) PG

Art. Nr. art. no.	AG male	IG female	L mm	GL/AG mm	SW mm	VPE Stk. unit pcs.
K-ERWPG0709	PG07	PG09	21,0	8,0	19	100
K-ERWPG0911	PG09	PG11	23,0	8,0	22	100
K-ERWPG1113	PG11	PG13,5	23,0	8,0	24	100
K-ERWPG1116	PG11	PG16	24,5	8,0	27	100
K-ERWPG1316	PG13,5	PG16	26,0	9,0	27	100
K-ERWPG1621	PG16	PG21	29,0	9,0	32	100
K-ERWPG2129	PG21	PG29	32,0	10,0	42	50
K-ERWPG2936	PG29	PG36	35,5	11,0	53	25
K-ERWPG3642	PG36	PG42	40,5	13,0	60	10
K-ERWPG4248	PG42	PG48	41,0	13,0	65	10

Aussengewinde (AG) PG
Innengewinde (IG) PG

male thread (AG) PG
female thread (IG) PG

K-Ü



Ausführung construction	Adapter adapter
Werkstoff material	Polyamid 6 polyamide 6
Temperatur temperature	-30°C - +100°C
Schutzart protection	-
Gemäß according to	-



Form B
shape B



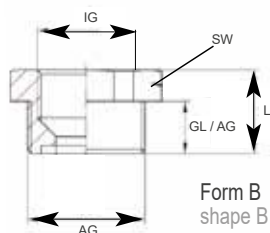
Form A
shape A

hellgrau RAL 7035
light grey RAL 7035

Art. Nr. art. no.	AG male	IG female	L mm	GL/AG mm	SW mm	Form shape	VPE Stk. unit pcs.
K-ÜM12PG07	M12	PG07	27,0	9,0	16	A	25
K-ÜM12PG09	M12	PG09	27,0	9,0	20	A	25
K-ÜM16PG09	M16	PG09	27,0	9,0	20	A	25
K-ÜM16PG11	M16	PG11	27,0	9,0	22	A	25
K-ÜM16PG13	M16	PG13,5	27,0	9,0	24	A	25
K-ÜM20PG11	M20	PG11	27,0	9,0	24	A	25
K-ÜM20PG13	M20	PG13,5	27,0	9,0	24	A	25
K-ÜM20PG16	M20	PG16	27,0	9,0	27	A	25
K-ÜM25PG13	M25	PG13,5	17,0	10,0	24	B	25
K-ÜM25PG16	M25	PG16	28,0	10,0	29	A	25
K-ÜM25PG21	M25	PG21	28,0	10,0	33	A	25
K-ÜM32PG16	M32	PG16	19,0	12,0	36	B	10
K-ÜM32PG21	M32	PG21	30,0	12,0	36	A	10
K-ÜM32PG29	M32	PG29	30,0	12,0	42	A	10
K-ÜM40PG21	M40	PG21	19,0	12,0	46	B	10
K-ÜM40PG29	M40	PG29	30,0	12,0	46	A	10
K-ÜM40PG36	M40	PG36	30,0	12,0	53	A	10
K-ÜM50PG36	M50	PG36	32,0	14,0	55	A	5
K-ÜM50PG42	M50	PG42	42,0	14,0	60	A	5
K-ÜM50PG48	M50	PG48	32,0	14,0	65	A	5
K-ÜM63PG42	M63	PG42	22,0	15,0	68	B	5
K-ÜM63PG48	M63	PG48	33,0	15,0	68	A	5

Aussengewinde (AG) Metrisch
Innengewinde (IG) PG

male thread (AG) metric
female thread (IG) PG

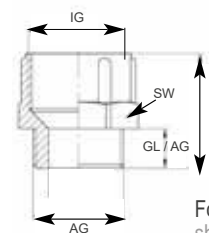


Form B
shape B

Art. Nr. art. no.	AG male	IG female	L mm	GL/AG mm	SW mm	Form shape	VPE Stk. unit pcs.
K-ÜPG07M12	PG07	M12	27,0	9,0	16	A	25
K-ÜPG07M16	PG07	M16	27,0	9,0	20	A	25
K-ÜPG09M12	PG09	M12	27,0	9,0	20	A	25
K-ÜPG09M16	PG09	M16	27,0	9,0	20	A	25
K-ÜPG09M20	PG09	M20	27,0	9,0	24	A	25
K-ÜPG11M16	PG11	M16	27,0	9,0	22	A	25
K-ÜPG11M20	PG11	M20	27,0	9,0	24	A	25
K-ÜPG11M25	PG11	M25	27,0	9,0	29	A	25
K-ÜPG13M16	PG13,5	M16	28,0	10,0	24	A	25
K-ÜPG13M20	PG13,5	M20	28,0	10,0	24	A	25
K-ÜPG13M25	PG13,5	M25	28,0	10,0	29	A	25
K-ÜPG16M20	PG16	M20	28,0	10,0	27	A	25
K-ÜPG16M25	PG16	M25	28,0	10,0	29	A	25
K-ÜPG16M32	PG16	M32	28,0	10,0	36	A	25
K-ÜPG21M25	PG21	M25	30,0	12,0	33	A	10
K-ÜPG21M32	PG21	M32	30,0	12,0	36	A	10
K-ÜPG21M40	PG21	M40	30,0	12,0	46	A	10
K-ÜPG29M32	PG29	M32	19,0	12,0	42	B	10
K-ÜPG29M40	PG29	M40	30,0	12,0	46	A	10
K-ÜPG29M50	PG29	M50	30,0	12,0	55	A	10
K-ÜPG36M40	PG36	M40	21,0	14,0	53	B	10
K-ÜPG36M50	PG36	M50	32,0	14,0	55	A	10
K-ÜPG36M63	PG36	M63	32,0	14,0	68	A	10
K-ÜPG42M40	PG42	M40	21,0	14,0	60	B	5
K-ÜPG42M50	PG42	M50	32,0	14,0	60	A	5
K-ÜPG42M63	PG42	M63	32,0	14,0	68	A	5
K-ÜPG48M50	PG48	M50	22,0	15,0	65	B	5
K-ÜPG48M63	PG48	M63	33,0	15,0	68	A	5

Aussengewinde (AG) PG
Innengewinde (IG) Metrisch

male thread (AG) PG
female thread (IG) metric

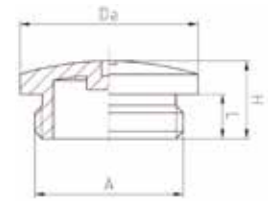


Form A
shape A

K-VST



Ausführung construction	Verschlusschraube plug screw
Werkstoff material	Polyamid 6 polyamide 6
Temperatur temperature	-30°C - +100°C
Schutzart protection	-
Gemäß according to	-



Gewindeart metrisch

Art. Nr. art. no. RAL 7035	Art. Nr. art. no. RAL 7001	Art. Nr. art. no. RAL 9005	Gewinde A thread A	L mm	H mm	Da unit	VPE Stk. unit pcs.
K-VSTM12G	K-VSTM12	K-VSTM12B	M12	6,0	10,0	15,0	100
K-VSTM16G	K-VSTM16	K-VSTM16B	M16	7,0	11,0	20,0	100
K-VSTM20G	K-VSTM20	K-VSTM20B	M20	7,0	12,5	24,0	100
K-VSTM25G	K-VSTM25	K-VSTM25B	M25	10,0	16,0	30,0	100
K-VSTM32G	K-VSTM32	K-VSTM32B	M32	11,0	16,0	37,0	50
K-VSTM40G	K-VSTM40	K-VSTM40B	M40	13,0	18,0	46,0	25
K-VSTM50G	K-VSTM50	K-VSTM50B	M50	14,0	19,0	56,0	10
K-VSTM63G	K-VSTM63	K-VSTM63B	M63	15,0	19,0	69,5	5

Gewindeart PG

Art. Nr. hellgrau art. no. light grey RAL 7035	Art. Nr. grau art. no. grey RAL 7001	Art. Nr. schwarz art. no. black RAL 9005	Gewinde A thread A	L mm	H mm	Da unit	VPE Stk. unit pcs.
K-VSTPG07G	K-VSTPG07	K-VSTPG07B	PG07	6,0	8,0	15,0	100
K-VSTPG09G	K-VSTPG09	K-VSTPG09B	PG09	6,5	9,5	19,0	100
K-VSTPG11G	K-VSTPG11	K-VSTPG11B	PG11	6,5	10,0	22,0	100
K-VSTPG13G	K-VSTPG13	K-VSTPG13B	PG13,5	6,5	10,0	25,0	100
K-VSTPG16G	K-VSTPG16	K-VSTPG16B	PG16	6,5	10,0	27,0	100
K-VSTPG21G	K-VSTPG21	K-VSTPG21B	PG21	8,0	12,0	33,0	50
K-VSTPG29G	K-VSTPG29	K-VSTPG29B	PG29	8,0	11,5	44,0	25
K-VSTPG36G	K-VSTPG36	K-VSTPG36B	PG36	10,0	14,0	55,0	10
K-VSTPG42G	K-VSTPG42	K-VSTPG42B	PG42	10,0	14,0	61,5	5
K-VSTPG48G	K-VSTPG48	K-VSTPG48B	PG48	12,0	16,0	68,0	5

Auch in Polystyrol (Temperaturbereich: -30°C bis +110°C) und montiertem O-Ring (IP68) lieferbar.

Also available in polystyrol (Temperature Range: -30°C up to +110°C) and mounted O-ring (IP68).

K-WN / K-WST



Ausführung construction	Würgenippel offen (K-WN), geschlossen (K-WST) plug open (K-WN) closed (K-WST)
Werkstoff material	Polyamid 6 polyamide 6
Temperatur temperature	-30°C - +100°C
Schutzart protection	-
Gemäß according to	-



K-WN



K-WST

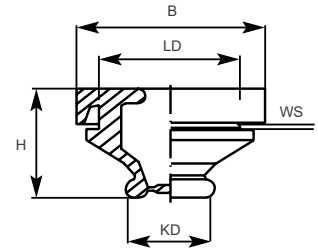
Art. Nr. hellgrau art. no. light grey RAL 7035	Art. Nr. schwarz art. no. black RAL 9005	Gewinde thread	Dichtbereich mm sealing range mm	Gewindelänge thread length	SW betw. flats	Gesamtlänge total length	VPE Stk. unit pcs.
K-WNM12G	K-WNM12B	M12	3,0 - 5,0	10,0 mm	12 mm	17,0 mm	100
K-WNM16G	K-WNM16B	M16	5,0 - 10,0	10,0 mm	15 mm	17,0 mm	100
K-WNM20G	K-WNM20B	M20	8,0 - 13,5	12,0 mm	19 mm	20,0 mm	100
K-WNM25G	K-WNM25B	M25	9,0 - 16,0	12,0 mm	24 mm	22,0 mm	100
K-WNM32G	K-WNM32B	M32	11,0 - 22,0	14,0 mm	30 mm	25,0 mm	50
K-WNM40G	K-WNM40B	M40	17,0 - 24,0	16,0 mm	37 mm	28,0 mm	25
K-WNM50G	K-WNM50B	M50	22,0 - 35,0	18,0 mm	46 mm	31,0 mm	10
K-WNM63G	K-WNM63B	M63	24,0 - 43,0	20,0 mm	56 mm	35,0 mm	5

Art. Nr. hellgrau art. no. light grey RAL 7035	Art. Nr. schwarz art. no. black RAL 9005	Gewinde thread	Dichtbereich mm sealing range mm	Gewindelänge thread length	SW betw. flats	Gesamtlänge total length	VPE Stk. unit pcs.
K-WSTM12G	K-WSTM12B	M12	3,0 - 5,0	10,0 mm	12 mm	17,0 mm	100
K-WSTM16G	K-WSTM16B	M16	5,0 - 10,0	10,0 mm	15 mm	17,0 mm	100
K-WSTM20G	K-WSTM20B	M20	8,0 - 13,5	12,0 mm	19 mm	20,0 mm	100
K-WSTM25G	K-WSTM25B	M25	9,0 - 16,0	12,0 mm	24 mm	22,0 mm	100
K-WSTM32G	K-WSTM32B	M32	11,0 - 22,0	14,0 mm	30 mm	25,0 mm	50
K-WSTM40G	K-WSTM40B	M40	17,0 - 24,0	16,0 mm	37 mm	28,0 mm	25
K-WSTM50G	K-WSTM50B	M50	22,0 - 35,0	18,0 mm	46 mm	31,0 mm	10
K-WSTM63G	K-WSTM63B	M63	24,0 - 43,0	20,0 mm	56 mm	35,0 mm	5

DZ



Ausführung construction	Kabeldurchführung cable grommet
Werkstoff material	EPDM / CR / SI / TPE
Temperatur temperature	EPDM / CR: -45°C - +120°C SI: -50°C - +200°C TPE: -40°C - +100°C
Schutzart protection	IP67
Gemäß according to	-



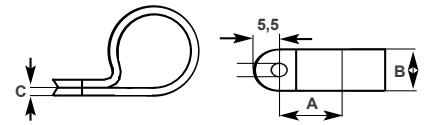
Art. Nr. grau art. no. grey EPDM RAL7042	Art. Nr. schwarz art. no. black EPDM RAL9011	Art. Nr. schwarz art. no. black CR RAL9011	Art. Nr. rot art. no. red Silicone RAL3022	LD mm	KD mm	WS mm	B mm	H mm	VPE Stk. unit pcs.
DZ-EPDM12	DZ-EPDM12B	DZ-CRM12B	DZ-SM12R	12,5	3,0 - 5,0	1,3 - 5,0	19,0	18,5	100
DZ-EPDM16	DZ-EPDM16B	DZ-CRM16B	DZ-SM16R	16,5	5,0 - 7,0	1,3 - 5,0	23,0	18,5	100
DZ-EPDM20	DZ-EPDM20B	DZ-CRM20B	DZ-SM20R	20,5	7,0 - 10,0	1,3 - 5,0	27,0	19,5	100
DZ-EPDM25	DZ-EPDM25B	DZ-CRM25B	DZ-SM25R	25,5	10,0 - 14,0	1,3 - 5,0	32,0	19,5	100
DZ-EPDM32	DZ-EPDM32B	DZ-CRM32B	DZ-SM32R	32,5	14,0 - 20,0	1,3 - 5,0	39,0	21,5	50
DZ-EPDM40	DZ-EPDM40B	DZ-CRM40B	DZ-SM40R	40,5	20,0 - 26,0	1,3 - 5,0	47,0	24,0	25
DZ-EPDM50	DZ-EPDM50B	DZ-CRM50B	DZ-SM50R	50,5	26,0 - 35,0	1,3 - 5,0	58,0	30,0	25
DZ-EPDM63	DZ-EPDM63B	DZ-CRM63B	DZ-SM63R	63,5	35,0 - 40,0	1,3 - 5,0	69,0	45,0	10
DZ-EPDM80	DZ-EPDM80B	DZ-CRM80B	DZ-SM80R	80,5	40,0 - 60,0	1,3 - 5,0	90,0	60,0	10

Art. Nr. grau art. no. grey TPE RAL7042	Art. Nr. hellgrau art. no. light grey TPE RAL7035	Art. Nr. schwarz art. no. black TPE RAL9011	LD mm	KD mm	WS mm	B mm	H mm	VPE Stk. unit pcs.
DZ-TPEM12	DZ-TPEM12G	DZ-TPEM12B	12,5	3,0 - 5,0	1,0 - 5,0	19,0	20,9	100
DZ-TPEM16	DZ-TPEM16G	DZ-TPEM16B	16,5	5,0 - 7,0	1,0 - 5,0	23,0	21,6	100
DZ-TPEM20	DZ-TPEM20G	DZ-TPEM20B	20,5	7,0 - 10,0	1,0 - 5,0	27,0	24,3	100
DZ-TPEM25	DZ-TPEM25G	DZ-TPEM25B	25,5	10,0 - 14,0	1,0 - 5,0	32,0	24,8	100
DZ-TPEM32	DZ-TPEM32G	DZ-TPEM32B	32,5	14,0 - 20,0	1,0 - 5,0	39,0	28,1	50
DZ-TPEM40	DZ-TPEM40G	DZ-TPEM40B	40,5	20,0 - 26,0	1,0 - 5,0	46,0	31,8	25
DZ-TPEM50	DZ-TPEM50G	DZ-TPEM50B	50,5	26,0 - 35,0	1,0 - 5,0	57,0	39,7	25
DZ-TPEM63	DZ-TPEM63G	DZ-TPEM63B	63,5	30,0 - 45,0	1,0 - 5,0	69,0	59,6	10
DZ-TPEM80	DZ-TPEM80G	DZ-TPEM80B	80,5	40,0 - 60,0	1,2 - 5,2	89,0	78,2	10

BSN



Ausführung construction	Befestigungsschelle fixing clamp
Werkstoff material	Polyamid 6 polyamide 6
Temperatur temperature	-20°C - +85°C
Schutzart protection	-
Gemäß according to	-

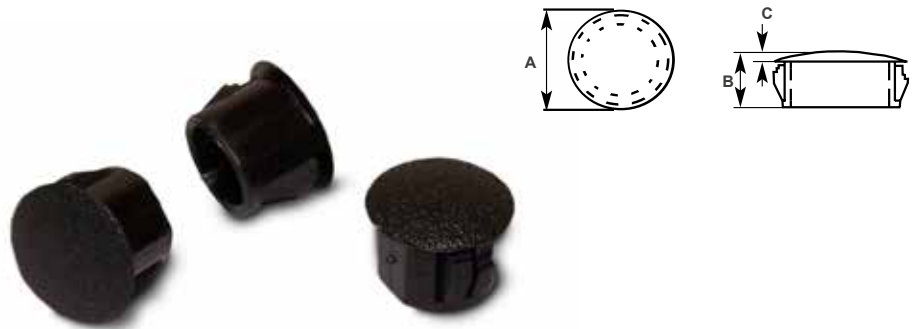


Art. Nr. schwarz art. no. black	Art. Nr. natur art. no. nature	Bündel Ø mm bundle Ø mm	A mm	B mm	C mm	D mm	VE/St. PU/pcs.
BSN420010	BSN42001	3,2	8,7	9,5	1,3	5,2	100
BSN420012	BSN420011	4,8	9,6	9,5	1,3	4,3	100
BSN420020	BSN42002	4,8	9,6	9,5	1,3	5,2	100
BSN420022	BSN420021	6,4	10,7	9,5	1,3	4,3	100
BSN420030	BSN42003	6,4	10,7	9,5	1,3	5,2	100
BSN420032	BSN420031	7,9	11,2	9,5	1,3	4,3	100
BSN420040	BSN42004	7,9	11,2	9,5	1,3	5,2	100
BSN420042	BSN420041	9,5	11,8	9,5	1,3	4,3	100
BSN420050	BSN42005	9,5	11,8	9,5	1,3	5,2	100
BSN420060	BSN42006	11,1	12,7	9,5	1,3	5,2	100
BSN420070	BSN42007	12,7	13,5	9,5	1,3	5,2	100
BSN420090	BSN42009	4,4	10,7	12,7	1,3	5,2	100
BSN420100	BSN42010	6,4	11,1	12,7	1,3	5,2	100
BSN420110	BSN42011	7,9	12,0	12,7	1,3	5,2	100
BSN420120	BSN42012	9,5	12,7	12,7	1,3	5,2	100
BSN420130	BSN42013	11,1	13,5	12,7	1,3	5,2	100
BSN420140	BSN42014	12,7	14,1	12,7	1,3	5,2	100
BSN420150	BSN42015	14,3	15,3	12,7	1,3	5,2	100
BSN420160	BSN42016	15,9	15,9	12,7	1,3	5,2	100
BSN420170	BSN42017	17,4	16,9	12,7	1,3	5,2	100
BSN420180	BSN42018	19,1	17,8	12,7	1,3	5,2	100
BSN420190	BSN42019	20,6	19,9	12,7	1,3	5,2	100
BSN420210	BSN42021	25,4	20,9	12,7	1,5	5,2	100
BSN420220	BSN42022	28,6	23,8	12,7	1,3	5,2	100
BSN420240	BSN42024	31,8	24,9	12,7	1,3	5,2	100
BSN420250	BSN42025	34,9	-	12,7	1,5	5,2	100
BSN420260	BSN42026	38,1	-	12,7	1,5	5,2	100

LDP



Ausführung construction	Abdeckkappe cover plug
Werkstoff material	Polyamid 6 polyamide 6
Temperatur temperature	-40°C - +105°C°
Schutzart protection	-
Gemäß according to	-



Art. Nr. schwarz art. no. black	M-Loch mm hole mm	max. W-Stärke max. wall thick.	A mm	B mm	C mm	VE/St. PU/pcs.
LDP26321	4,7	1,6 mm	6,4	5,9	1,1	100
LDP26322	6,4	1,6 mm	7,9	7,9	1,6	100
LDP26323	7,9	1,6 mm	9,5	7,9	1,6	100
LDP26324	9,5	3,2 mm	11,9	10,3	1,6	100
LDP26325	11,1	3,2 mm	13,5	10,3	1,6	100
LDP26326	12,7	3,2 mm	14,7	10,3	1,6	100
LDP26327	14,3	3,2 mm	16,7	10,3	1,6	100
LDP26328	15,9	3,2 mm	18,2	10,3	1,6	100
LDP26329	17,4	3,2 mm	19,8	10,3	1,6	100
LDP26330	19,1	3,2 mm	23,4	10,3	1,6	100
LDP26331	20,6	3,2 mm	22,6	10,3	1,6	100
LDP26332	22,2	3,2 mm	25,8	11,5	1,6	100
LDP26334	25,4	3,2 mm	30,6	11,5	1,6	100
LDP26336	28,0	3,2 mm	30,9	11,5	1,6	100
LDP26337	30,1	3,2 mm	33,3	11,5	1,6	100
LDP26338	31,8	3,2 mm	34,9	11,5	1,6	100
LDP26339	34,9	3,2 mm	38,1	11,5	1,6	100
LDP26340	38,1	3,2 mm	42,4	11,5	1,6	100
LDP26341	44,5	3,2 mm	48,4	11,5	1,6	100
LDP26342	50,8	3,2 mm	55,1	12,2	2,3	100
LDP26414	53,2	6,4 mm	59,5	19,1	2,8	100
LDP26415	57,2	6,4 mm	61,5	19,1	2,8	100
LDP26416	63,5	6,4 mm	69,0	19,1	2,8	100
LDP26417	76,2	6,4 mm	80,5	19,1	2,8	100
LDP26418	85,7	6,4 mm	92,9	19,1	2,8	100
LDP26419	88,9	6,4 mm	92,9	19,1	2,8	100
LDP26420	101,6	6,4 mm	105,6	19,1	2,8	100

DG-NEO / DG-TPE



Ausführung construction	Durchführungsstülpe grommet
Werkstoff material	Neopren (DG-NEO) TPE (DG-TPE)
Temperatur temperature	-30°C - +90°C (NEO) -50°C - +125°C (TPE)
Schutzart protection	-
Gemäß according to	-



TYP / TYPE DG-NEO

Art. Nr. schwarz art. no. black	Art. Nr. grau art. no. grey	Loch Ø M hole Ø M	Ø A mm	Ø B mm	Ø C mm	E mm	F1 mm	F2 mm	M mm	VE/St. PU/pcs.
DG28051	-	M16	9,0	16,0	20,0	2,0	2,5	2,5	1,0	100
DG28052	DG280520	M20	13,5	20,0	25,0	2,0	2,5	2,5	1,0	100
DG28053	DG280530	M25	18,5	25,0	30,5	2,0	2,5	2,5	1,0	100
DG28054	DG280540	M32	25,0	32,0	39,0	2,0	3,0	3,0	1,0	100
DG28055	-	M40	31,0	40,0	47,0	2,5	3,8	3,8	1,0	50
DG28056	-	M50	39,0	50,0	57,0	2,5	3,8	3,8	1,0	50
DG28057	-	M63	53,0	63,0	75,0	2,5	3,8	3,8	1,0	50
DG28059	-	M68	53,0	68,0	75,0	2,5	3,8	3,8	1,5	50
DG28058	-	M75	65,0	75,0	87,0	2,5	3,8	3,8	1,0	50

Art. Nr. schwarz art. no. black	Art. Nr. grau art. no. grey	Loch Ø PG hole Ø PG	Ø A mm	Ø B mm	Ø C mm	E mm	F1 mm	F2 mm	M mm	VE/St. PU/pcs.
DG28020	-	PG 9	9,0	15,5	20,0	1,0	3,5	2,5	1,0	100
DG28021	DG280210	PG 9	9,0	15,5	20,0	2,0	2,5	2,5	1,0	100
DG28022	DG280220	PG 11	11,0	18,5	23,0	2,0	2,5	2,5	1,0	100
DG28023	DG280230	PG 13,5	13,5	20,5	25,0	2,0	2,5	2,5	1,0	100
DG28024	DG280240	PG 16	16,0	22,5	27,5	2,0	2,5	2,5	1,0	100
DG28025	DG280250	PG 21	21,0	28,0	35,0	2,0	3,0	3,0	1,0	100
DG28026	-	PG 29	29,0	37,0	44,0	2,0	3,5	3,5	1,0	50
DG28027	-	PG 36	36,0	47,0	54,0	2,5	3,8	3,8	1,0	50
DG28028	-	PG 48	48,0	60,0	68,0	2,5	3,8	3,8	1,0	50
DG28029	-	-	53,0	64,0	75,0	2,5	3,8	3,8	1,5	50
DG28030	-	-	69,0	79,0	90,0	2,5	3,8	3,8	1,5	50

TYP / TYPE DG-TPE

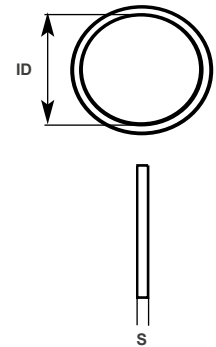
Art. Nr. schwarz art. no. black	Art. Nr. grau art. no. grey	Loch Ø M hole Ø M	Ø A mm	Ø B mm	Ø C1 mm	Ø C2 mm	E mm	F1 mm	F2 mm	M mm	VE/St. PU/pcs.
DG28137	DG281370	M20	13,5	20,0	24,0	24,0	2,0	2,5	2,5	1,0	100
DG28138	DG281380	M25	21,0	25,0	34,5	31,5	2,0	3,0	3,0	1,0	100
DG28139	DG281390	M32	29,0	32,0	43,5	39,0	2,2	3,7	3,7	1,3	100

Art. Nr. schwarz art. no. black	Art. Nr. grau art. no. grey	Loch Ø PG hole Ø PG	Ø A mm	Ø B mm	Ø C1 mm	Ø C2 mm	E mm	F1 mm	F2 mm	M mm	VE/St. PU/pcs.
DG28135	DG281350	PG 9	9,0	15,0	20,0	18,0	2,0	2,5	2,5	1,0	100
DG28136	DG281360	PG 11	11,0	18,0	22,5	21,5	2,0	2,5	2,5	1,0	100
DG28007	DG280070	PG 13,5	13,5	20,0	24,0	24,0	2,0	2,5	2,5	1,0	100
DG28008	DG280080	PG 16	16,0	22,0	27,5	26,0	2,0	2,7	2,7	1,0	100
DG28009	DG280090	PG 21	21,0	28,0	34,5	34,5	2,0	3,0	3,0	1,0	100
DG28010	-	PG 29	29,0	37,0	43,5	43,5	2,2	3,7	3,7	1,3	50
DG28037	-	PG 36	35,5	47,0	52,5	52,5	2,5	3,8	3,8	1,3	50
DG28038	-	PG 48	47,0	59,0	67,0	67,0	2,5	4,0	4,0	1,5	50

ORP



Ausführung construction	O-Ring
Werkstoff material	NBR
Temperatur temperature	-25°C - +120°C
Schutzart protection	-
Gemäß according to	-



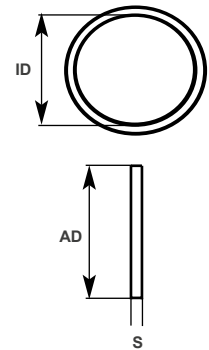
Art. Nr. art. no.	für Gewinde for thread	ID mm	Stärke S mm thickness S mm	VE/St. PU/pcs.
ORPM12	12x1,5	10,0	1,5	100
ORPM16	16x1,5	12,0	1,5	100
ORPM20	20x1,5	17,0	1,8	100
ORPM25	25x1,5	22,0	2,0	100
ORPM32	32x1,5	29,0	2,0	50
ORPM40	40x1,5	35,0	2,0	50
ORPM50	50x1,5	43,0	2,0	50
ORPM63	63x1,5	55,0	2,0	50

Art. Nr. art. no.	für Gewinde for thread	ID mm	Stärke S mm thickness S mm	VE/St. PU/pcs.
ORPP07	PG 7 (1/4")	10,0	1,5	100
ORPP09	PG 9 (3/8")	12,0	1,5	100
ORPP11	PG 11	16,0	1,5	100
ORPP13	PG 13,5 (1/2")	17,0	1,8	100
ORPP16	PG 16 (5/8")	18,0	1,5	100
ORPP21	PG 21	26,0	2,0	50
ORPP29	PG 29 (1 1/8")	33,0	2,0	50
ORPP36	PG 36 (1 1/2")	43,0	2,0	50
ORPP42	PG 42 (1 3/4")	50,0	2,0	50
ORPP48	PG 48 (2")	55,0	2,0	50

GAM / G / GRA



Ausführung construction	Flachdichtung gasket
Werkstoff material	Guarnital (G) guarnital G
Temperatur temperature	-30°C - +120°C
Werkstoff material	Mineralfaser (GAM) ineral fibre (GAM)
Temperatur temperature	-45°C - +150°C
Werkstoff material	Kupfer (GRA) copper (GRA)
Temperatur temperature	-45°C - +150°C
Gemäß according to	-



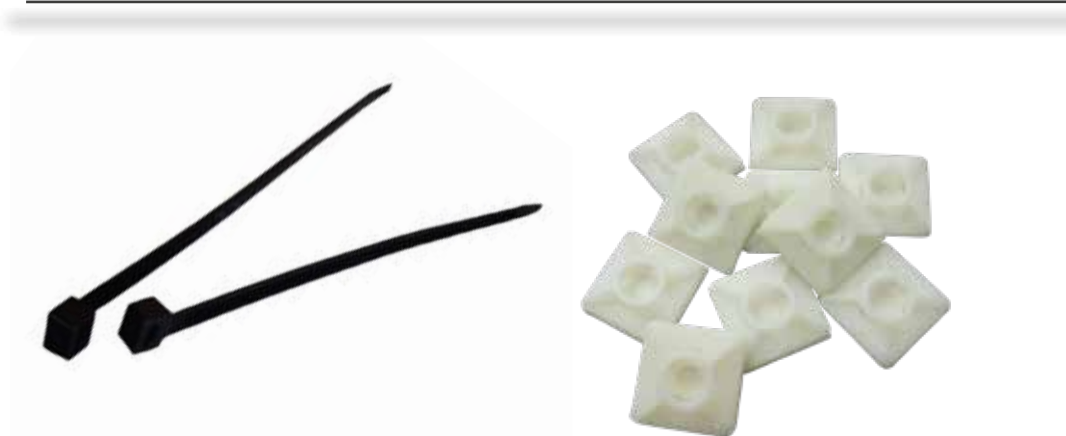
Guarnital Guarnital	Mineralfaser mineral fibre	Kupfer copper	für Gewinde for thread	ID mm	AD mm	S mm	VE/St. PU/pcs.
GMG16	GMA16	GRM16	M16	16,3	22	2	100
GMG24	GAM24	GRA24	M20	20,3	26	2	100
GMG25	GMA25	GRM25	M25	25,3	32	2	50
GMG32	GMA32	GRM32	M32	32,3	39	2	50
GMG40	GMA40	GRM40	M40	40,3	50	2	20
GMG50	GMA50	GRM50	M50	50,3	60	2	20
GMG63	GMA63	GRM63	M63	63,3	73	2	10

Guarnital Guarnital	Mineralfaser mineral fibre	Kupfer copper	für Gewinde for thread	ID mm	AD mm	S mm	VE/St. PU/pcs.
G01	GAM01	GRA01	PG7	13,3	18	2	100
G22	GAM22	GRA22	PG9	15,2	20	2	100
G23	GAM23	GRA23	PG11	19	23	2	100
G24	GAM24	GRA24	PG13,5	20,5	26	2	100
G25	GAM25	GRA25	PG16	22,7	28	2	50
G26	GAM26	GRA26	PG21	28,5	35	2,5	50
G27	GAM27	GRA27	PG29	37,2	44,5	2,5	50
G07	GAM07	GRA28	PG36	48	58	2,5	25
G29	GAM29	GRA29	PG42	54,3	63	2,5	10
G08	GAM08	GRA30	PG48	60	70	2,5	10

LKN / LMP

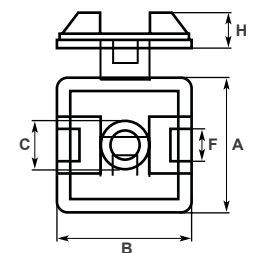


Ausführung construction	Kabelbinder & Klebesockel cable tie & adhesive socket
Werkstoff material	Polyamid 6 polyamide 6
Temperatur temperature	-40°C - +85°C
Schutzart protection	-
Gemäß according to	-



Art. Nr. schwarz art. no. black	Art. Nr. natur art. no. transparent	Länge mm length mm	Breite mm width mm	Büdel Ø mm bundle Ø mm	Zugfestigkeit/kg tensile strength/kg	VE/St. PU/pcs.
32141	32101	75,0	2,2	15,0	6,0	1000
32142	32102	98,0	2,5	21,0	8,2	1000
32143	32103	135,0	2,6	32,0	8,2	1000
32144	32104	200,0	2,6	52,0	8,2	1000
32145	32105	140,0	3,6	35,0	13,0	1000
32146	32106	290,0	3,6	80,0	13,0	500
32147	32107	160,0	4,5	40,0	20,0	1000
32148	32108	178,0	4,8	45,0	20,0	1000
32149	32109	200,0	4,8	50,0	22,0	1000
32150	32110	250,0	4,8	68,0	22,0	100
32151	32111	290,0	4,8	79,0	22,0	100
32152	32112	360,0	4,8	103,0	22,0	100
32153	32113	120,0	7,8	25,0	22,0	100
32154	32114	180,0	7,8	45,0	55,0	100
32155	32115	240,0	7,8	63,0	55,0	100
32156	32116	300,0	7,8	80,0	55,0	100
32157	32117	365,0	7,8	100,0	55,0	100
32158	32118	450,0	7,8	130,0	55,0	100
32159	32119	540,0	7,8	158,0	55,0	100
32160	32120	750,0	7,8	200,0	55,0	100
32161	32121	780,0	9,0	233,0	77,0	100
32162	32122	225,0	12,6	57,0	110,0	50
32163	32123	500,0	12,6	143,0	110,0	50
32164	32124	720,0	12,6	213,0	110,0	50
32165	32125	850,0	12,6	255,0	110,0	50
32166	32126	1000,0	12,6	302,0	110,0	50

Art. Nr. schwarz art. no. black	Art. Nr. natur art. no. nature	Typ Type	max. Breite Kabelb. max. width cable ties	A mm	B mm	C mm	F mm	H mm	VE/St. PU/pcs.
32718	32713	LMP-B 5469	3,6 mm	19,0	19,0	4,1	4,0	5,0	100
32719	32714	LMP-B 5475	4,8 mm	27,0	27,0	4,8	6,0	6,5	100



EBF



Ausführung construction	Ent- und Belüftungs- verschraubung aeration and deaera- tion fitting
Werkstoff material	Messing vernickelt oder Edelstahl nickel-plated brass or stainless steel
Temperatur temperature	bis / up to +300°C (EBF/SO, EBF-SIEB)
Temperatur temperature	-20°C - +80°C (EBF/SO-M IP66)
Gemäß according to	-



EBF / SO IP66



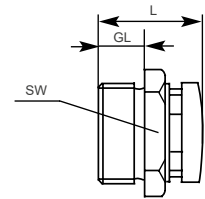
EBF / SO



EBF-SIEB

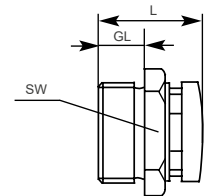
EBF / SO

Art. Nr. art. no.	Art. Nr. VA art. no. INOX	Gewinde thread	L mm	GL/AG mm	SW mm	VPE Stk. unit pcs.
05241	05241VA	M12	18,0	6,0	14	100
05242	05242VA	M16	18,0	6,0	17	100
05243	05243VA	M20	18,0	7,5	22	100
05244	05244VA	M25	20,0	7,5	30	50



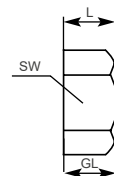
EBF / SO - IP66

Art. Nr. art. no.	Gewinde thread	L mm	GL/AG mm	SW mm	VPE Stk. unit pcs.
052490	M20	20,0	10,0	24	50



EBF-SIEB

Art. Nr. art. no.	Gewinde thread	L mm	GL/AG mm	SW mm	VPE Stk. unit pcs.
27023	PG11	11,5	10,0	21	100



M-GM / M-GM-EMV



Ausführung construction	Gegenmutter locknut
Werkstoff material	Messing vernickelt nickel-plated brass
Temperatur temperature	bis / up to +200°C
Schutzart protection	-
Gemäß according to	-



M-GM



M-GM-EMV

Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	SW mm	H mm	VPE Stk. unit pcs.
M-GMM06	M6	9	2,8	50
M-GMM08	M8	11	2,8	50
M-GMM10	M10	13	2,8	50
M-GMM12	M12	15	2,8	100
M-GMM16	M16	19	2,8	100
M-GMM20	M20	24	3,0	100
M-GMM25	M25	30	3,5	100
M-GMM32	M32	36	4,0	100
M-GMM40	M40	46	5,0	50
M-GMM50	M50	60	5,0	25
M-GMM63	M63	70	6,0	25

Art. Nr. art. no.	Gewinde thread	SW mm	H mm	VPE Stk. unit pcs.
X-GMM06	M6	9	2,8	50
X-GMM08	M8	11	2,8	50
X-GMM10	M10	13	2,8	50
X-GMM12	M12	15	2,8	100
X-GMM16	M16	19	2,8	100
X-GMM20	M20	24	3,0	100
X-GMM25	M25	30	3,5	100
X-GMM32	M32	36	4,0	100
X-GMM40	M40	46	5,0	50
X-GMM50	M50	60	5,0	25
X-GMM63	M63	70	6,0	25

Art. Nr. art. no.	Gewinde thread	SW mm	H mm	VPE Stk. unit pcs.
M-GMM12EMV	M12	15	2,8	50
M-GMM16EMV	M16	19	2,8	50
M-GMM20EMV	M20	24	3,0	50
M-GMM25EMV	M25	30	3,5	50
M-GMM32EMV	M32	36	4,5	25
M-GMM40EMV	M40	46	5,0	25
M-GMM50EMV	M50	60	5,0	10
M-GMM63EMV	M63	70	6,0	10

Gewindeart PG

Art. Nr. art. no.	Gewinde thread	SW mm	H mm	VPE Stk. unit pcs.
M-GMP07	PG07	15	2,8	100
M-GMP09	PG09	18	2,8	100
M-GMP11	PG11	21	3,0	100
M-GMP13	PG13,5	23	3,0	100
M-GMP16	PG16	26	3,0	100
M-GMP21	PG21	32	3,5	100
M-GMP29	PG29	41	4,0	50
M-GMP36	PG36	51	5,0	50
M-GMP42	PG42	60	5,0	25
M-GMP48	PG48	64	5,0	25

Art. Nr. art. no.	Gewinde thread	SW mm	H mm	VPE Stk. unit pcs.
X-GMP07	PG07	15	2,8	100
X-GMP09	PG09	18	2,8	100
X-GMP11	PG11	21	3,0	100
X-GMP13	PG13,5	23	3,0	100
X-GMP16	PG16	26	3,0	100
X-GMP21	PG21	32	3,5	100
X-GMP29	PG29	41	4,0	50
X-GMP36	PG36	51	5,0	50
X-GMP42	PG42	60	5,0	25
X-GMP48	PG48	64	5,0	25

Art. Nr. art. no.	Gewinde thread	SW mm	H mm	VPE Stk. unit pcs.
M-GMP07EMV	PG07	15	4,7	100
M-GMP09EMV	PG09	18	4,7	100
M-GMP11EMV	PG11	21	4,7	100
M-GMP13EMV	PG13,5	23	4,7	100
M-GMP16EMV	PG16	26	4,7	100
M-GMP21EMV	PG21	32	5,2	50
M-GMP29EMV	PG29	41	5,7	50
M-GMP36EMV	PG36	51	6,5	50
M-GMP42EMV	PG42	60	6,5	25
M-GMP48EMV	PG48	64	6,5	25

Gewindeart ZOLL

Art. Nr. art. no.	Gewinde thread	SW mm	H mm	VPE Stk. unit pcs.
M-GMZ014	1/4"	15	2,8	100
M-GMZ038	3/8"	20	3,0	100
M-GMZ012	1/2"	24	3,0	100
M-GMZ034	3/4"	30	3,5	100
M-GMZ100	1"	38	4,5	100
M-GMZ114	1 1/4"	46	5,0	50
M-GMZ112	1 1/2"	51	5,0	50
M-GMZ134	1 3/4"	51	5,0	50
M-GMZ200	2"	64	5,5	50
M-GMZ212	2 1/2"	80	7,0	25
M-GMZ300	3"	100	8,0	10
M-GMZ400	4"	125	1,0	1
M-GMZ500	5"	150	2,0	1

Art. Nr. art. no.	Gewinde thread	SW mm	H mm	VPE Stk. unit pcs.
X-GMZ014	1/4"	15	2,8	100
X-GMZ038	3/8"	20	3,0	100
X-GMZ012	1/2"	24	3,0	100
X-GMZ034	3/4"	30	3,5	100
X-GMZ100	1"	38	4,5	100
X-GMZ114	1 1/4"	46	5,0	50
X-GMZ112	1 1/2"	51	5,0	50
X-GMZ134	1 3/4"	51	5,0	50
X-GMZ200	2"	64	5,5	50
X-GMZ212	2 1/2"	80	7,0	25
X-GMZ300	3"	100	8,0	10
X-GMZ400	4"	125	1,0	1
X-GMZ500	5"	150	2,0	1

M-RED / M-REDS



Ausführung construction	Reduzierung gerändelt oder Sechskant reducer knurled or hexagon
Werkstoff material	Messing vernickelt nickel-plated brass
Temperatur temperature	bis / up to +200°C
Schutzart protection	-
Gemäß according to	-



M-REDS



M-RED

M-RED metrisch

Art. Nr. art. no.	AG male	IG female	L mm	GL / AG mm	VPE Stk. unit pcs.
M-REDM1612	M16	M12	8,5	6,0	100
M-REDM2012	M20	M12	8,5	6,0	100
M-REDM2016	M20	M16	9,0	6,5	100
M-REDM2512	M25	M12	10,5	7,5	50
M-REDM2516	M25	M16	10,0	7,0	50
M-REDM2520	M25	M20	10,0	7,0	50
M-REDM3216	M32	M16	11,5	8,0	50
M-REDM3220	M32	M20	11,5	8,0	50
M-REDM3225	M32	M25	11,5	8,0	25
M-REDM4020	M40	M20	12,0	8,0	25
M-REDM4025	M40	M25	11,5	8,0	25
M-REDM4032	M40	M32	11,5	8,0	25
M-REDM5025	M50	M25	13,0	9,0	10
M-REDM5032	M50	M32	12,5	9,0	10
M-REDM5040	M50	M40	12,5	9,0	10
M-REDM6332	M63	M32	14,0	10,0	10
M-REDM6340	M63	M40	14,0	10,0	10
M-REDM6350	M63	M50	14,0	10,0	10

M-RED PG

Art. Nr. art. no.	AG male	IG female	L mm	GL / AG mm	VPE Stk. unit pcs.
M-REDPG0907	PG09	PG07	8,5	6,0	100
M-REDPG1107	PG11	PG07	8,5	6,0	100
M-REDPG1109	PG11	PG09	8,5	6,0	100
M-REDPG1307	PG13,5	PG07	9,0	6,5	100
M-REDPG1309	PG13,5	PG09	9,0	6,5	100
M-REDPG1311	PG13,5	PG11	9,0	6,5	100
M-REDPG1607	PG16	PG07	9,5	6,5	100
M-REDPG1609	PG16	PG09	9,5	6,5	100
M-REDPG1611	PG16	PG11	9,5	6,5	100
M-REDPG1613	PG16	PG13,5	9,5	6,5	100
M-REDPG2111	PG21	PG11	10,0	7,0	100
M-REDPG2113	PG21	PG13,5	10,0	7,0	100
M-REDPG2116	PG21	PG16	10,0	7,0	100
M-REDPG2916	PG29	PG16	11,5	8,0	50
M-REDPG2921	PG29	PG21	11,5	8,0	50
M-REDPG3621	PG36	PG21	12,5	9,0	25
M-REDPG3629	PG36	PG29	12,5	9,0	25
M-REDPG4229	PG42	PG29	14,0	10,0	10
M-REDPG4236	PG42	PG36	14,0	10,0	10
M-REDPG4836	PG48	PG36	14,0	10,0	10
M-REDPG4842	PG48	PG42	14,0	10,0	10

M-REDS metrisch

Art. Nr. art. no.	AG male	IG female	L mm	GL / AG mm	SW mm	VPE Stk. unit pcs.
M-REDSM1612	M16	M12	8,5	6,0	18	50
M-REDSM2012	M20	M12	9,0	6,5	22	50
M-REDSM2016	M20	M16	9,0	6,5	22	50
M-REDSM2512	M25	M12	10,5	7,5	27	50
M-REDSM2516	M25	M16	10,0	7,0	28	50
M-REDSM2520	M25	M20	10,0	7,0	28	50
M-REDSM3216	M32	M16	11,0	8,0	35	50
M-REDSM3220	M32	M20	11,5	8,0	35	50
M-REDSM3225	M32	M25	11,5	8,0	35	25
M-REDSM4020	M40	M20	12,0	8,0	43	25
M-REDSM4025	M40	M25	12,5	8,0	43	25
M-REDSM4032	M40	M32	12,5	8,0	43	25
M-REDSM5025	M50	M25	14,0	10,0	54	10
M-REDSM5032	M50	M32	14,0	10,0	54	10
M-REDSM5040	M50	M40	14,0	10,0	54	10
M-REDSM6332	M63	M32	14,0	10,0	65	10
M-REDSM6340	M63	M40	14,0	10,0	68	10
M-REDSM6350	M63	M50	14,0	10,0	68	10
M-REDSM7250	M72	M50	17,0	12,0	80	5
M-REDSM7263	M72	M63	15,0	10,0	81	5
M-REDSM7550	M75	M50	23,0	15,0	90	5
M-REDSM7563	M75	M63	23,0	15,0	90	5
M-REDSM8063	M80	M63	18,0	10,0	90	5
M-REDSM8072	M80	M72	18,0	10,0	90	5
M-REDSM8075	M80	M75	18,0	10,0	90	5

M-REDS ZOLL/GAS

Art. Nr. art. no.	AG male	IG female	GL / IG mm	SW mm	VPE Stk. unit pcs.
M-REDSZ014018	1/4"	1/8"	6,0	20	50
M-REDSZ038014	3/8"	1/4"	6,0	20	50
M-REDSZ012014	1/2"	1/4"	8,0	24	50
M-REDSZ012038	1/2"	3/8"	8,0	24	50
M-REDSZ034038	3/4"	3/8"	8,0	30	50
M-REDSZ034012	3/4"	1/2"	8,0	30	50
M-REDSZ100012	1"	1/2"	11,0	35	25
M-REDSZ100034	1"	3/4"	11,0	35	25
M-REDSZ114034	1 1/4"	3/4"	-	45	10
M-REDSZ114100	1 1/4"	1"	11,0	45	10
M-REDSZ112100	1 1/2"	1"	-	51	5
M-REDSZ112114	1 1/2"	1 1/4"	11,0	51	5
M-REDSZ200100	2"	1"	-	64	5
M-REDSZ200112	2"	1 1/2"	11,0	64	5

M-ERW / M-ERWS



Ausführung construction	Erweiterung enlarger
Werkstoff material	Messing vernickelt nickel-plated brass
Temperatur temperature	bis / up to +200°C
Schutzart protection	-
Gemäß according to	-



M-ERWS



M-ERW

M-ERW metrisch

Art. Nr. art. no.	AG male	IG female	L mm	GL / AG mm	AD mm	VPE Stk unit pcs.
M-ERWM1216	M12	M16	15,0	5,0	18	100
M-ERWM1620	M16	M20	17,5	6,0	22	100
M-ERWM1625	M16	M25	20,0	6,5	27	50
M-ERWM2025	M20	M25	19,0	6,5	27	50
M-ERWM2032	M20	M32	22,0	7,0	34	50
M-ERWM2532	M25	M32	21,0	6,5	34	50
M-ERWM2540	M25	M40	24,0	7,5	43	50
M-ERWM3240	M32	M40	23,0	7,0	42	50
M-ERWM3250	M32	M50	28,0	8,0	53	25
M-ERWM4050	M40	M50	31,0	9,0	53	10
M-ERWM5063	M50	M63	31,0	9,0	66	10

M-ERW PG

Art. Nr. art. no.	AG male	IG female	L mm	GL / AG mm	AD mm	VPE Stk unit pcs.
M-ERWPG0709	PG07	PG09	15,0	5,0	17	100
M-ERWPG0911	PG09	PG11	16,5	6,0	20	100
M-ERWPG0913	PG09	PG13,5	17,5	6,0	22	100
M-ERWPG1113	PG11	PG13,5	17,5	6,0	22	100
M-ERWPG1116	PG11	PG16	19,0	6,5	24	100
M-ERWPG1121	PG11	PG21	21,0	6,5	30	100
M-ERWPG1316	PG13,5	PG16	19,0	6,5	24	100
M-ERWPG1321	PG13,5	PG21	21,0	6,5	30	100
M-ERWPG1621	PG16	PG21	21,0	6,5	30	100
M-ERWPG1629	PG16	PG29	22,5	6,5	39	50
M-ERWPG2129	PG21	PG29	23,0	7,0	39	50
M-ERWPG2936	PG29	PG36	27,5	8,0	50	25
M-ERWPG3642	PG36	PG42	31,0	9,0	57	10
M-ERWPG4248	PG42	PG48	33,0	10,0	64	10

M-ERWS metrisch

Art. Nr. art. no.	AG male	IG female	L mm	GL / AG mm	SW mm	VPE Stk unit pcs.
M-ERWSM1216	M12	M16	17,0	6,0	17	50
M-ERWSM1620	M16	M20	17,5	6,5	22	50
M-ERWSM1625	M16	M25	20,0	6,5	27	50
M-ERWSM2025	M20	M25	20,0	7,0	27	50
M-ERWSM2032	M20	M32	22,0	7,0	35	50
M-ERWSM2532	M25	M32	22,0	7,5	35	25
M-ERWSM2540	M25	M40	24,0	7,5	43	25
M-ERWSM3240	M32	M40	25,0	8,0	43	20
M-ERWSM3250	M32	M50	28,0	8,0	54	20
M-ERWSM4050	M40	M50	28,0	8,0	54	10
M-ERWSM5063	M50	M63	33,0	10,0	65	10

M-ERWS ZOLL/GAS

Art. Nr. art. no.	AG male	IG female	L mm	GL / AG mm	SW mm	VPE Stk unit pcs.
M-ERWSZ014038	1/4"	3/8"	7,0	6,0	20	50
M-ERWSZ038012	3/8"	1/2"	9,0	6,0	24	50
M-ERWSZ012034	1/2"	3/4"	9,0	8,0	30	50
M-ERWSZ034100	3/4"	1"	9,0	8,0	35	50
M-ERWSZ034112	3/4"	1 1/2"	16,0	10,0	55	10
M-ERWSZ100114	1"	1 1/4"	12,0	11,0	45	10
M-ERWSZ100112	1"	1 1/2"	16,0	10,0	55	10

M-Ü...



Ausführung construction	Übergangsstück adapter
Werkstoff material	Messing vernickelt nickel-plated brass
Temperatur temperature	bis / up to +200°C
Schutzart protection	-
Gemäß according to	-



Form 1



Form 2



Form 3



Form 4



Form 5

Art. Nr. art. no.	AG male	IG female	L mm	GL / AG mm	Form shape	SW mm	VPE Stk unit pcs.
M-ÜMPG1207	M12	PG07	15,0	5,0	3	14	100
M-ÜMPG1209	M12	PG09	16,5	7,0	5	18	100
M-ÜMPG1607	M16	PG07	7,5	6,0	2	-	100
M-ÜMPG1609	M16	PG09	17,0	6,0	5	20	100
M-ÜMPG1611	M16	PG11	17,0	7,0	5	20	100
M-ÜMPG2007	M20	PG07	9,0	7,0	1	24	100
M-ÜMPG2009	M20	PG09	9,0	6,5	2	-	100
M-ÜMPG2011	M20	PG11	17,0	6,5	3	-	100
M-ÜMPG2013	M20	PG13,5	18,5	6,5	3	-	100
M-ÜMPG2016	M20	PG16	19,5	6,5	3	-	100
M-ÜMPG2509	M25	PG09	10,0	8,0	1	28	50
M-ÜMPG2511	M25	PG11	10,0	7,0	2	-	50
M-ÜMPG2513	M25	PG13,5	10,0	7,0	2	-	50
M-ÜMPG2516	M25	PG16	10,0	6,5	2	-	50
M-ÜMPG 2521	M25	PG21	22,0	7,0	3	-	50
M-ÜMPG3213	M32	PG13,5	11,0	8,0	2	-	25
M-ÜMPG3216	M32	PG16	11,0	8,0	2	-	25
M-ÜMPG3221	M32	PG21	11,0	8,0	2	-	25
M-ÜMPG3229	M32	PG29	24,5	8,0	3	-	25
M-ÜMPG4016	M40	PG16	12,0	8,0	2	-	25
M-ÜMPG4021	M40	PG21	11,5	9,0	2	-	25
M-ÜMPG4029	M40	PG29	24,5	8,0	5	45	10
M-ÜMPG4036	M40	PG36	27,5	8,0	3	-	10
M-ÜMPG5021	M50	PG21	13,0	9,0	2	-	10
M-ÜMPG5029	M50	PG29	12,5	9,0	2	-	10
M-ÜMPG5036	M50	PG36	28,5	9,0	5	55	10
M-ÜMPG5042	M50	PG42	31,0	9,0	3	-	10
M-ÜMPG5048	M50	PG48	30,0	10,0	4	64	10
M-ÜMPG6329	M63	PG29	14,0	10,0	2	-	10
M-ÜMPG6336	M63	PG36	14,0	10,0	2	-	10
M-ÜMPG6342	M63	PG42	14,0	10,0	2	-	10
M-ÜMPG6348	M63	PG48	33,0	10,0	3	-	10

Aussengewinde (AG) metrisch
Innengewinde (IG) PG

male thread (AG) metric
female thread (IG) PG

Art. Nr. Art. no.	AG male	IG female	L mm	GL / AG mm	Form shape	SW mm	VPE Stk unit pcs.
M-ÜPGM0712	PG07	M12	15,0	5,0	5	14	100
M-ÜPGM0906	PG09	M6	9,0	6,0	1	18	50
M-ÜPGM0908	PG09	M8	9,0	6,0	1	18	50
M-ÜPGM0910	PG09	M10	9,0	6,0	1	18	50
M-ÜPGM0912	PG09	M12	14,0	6,0	1	18	50
M-ÜPGM0916	PG09	M16	16,0	6,0	5	19	100
M-ÜPGM1106	PG11	M6	9,0	6,0	1	21	50
M-ÜPGM1108	PG11	M8	9,0	6,0	1	21	50
M-ÜPGM1110	PG11	M10	9,0	6,0	1	21	50
M-ÜPGM1112	PG11	M12	9,0	6,0	1	21	50
M-ÜPGM1116	PG11	M16	16,0	6,0	5	22	100
M-ÜPGM1120	PG11	M20	16,5	6,0	4	24	50
M-ÜPGM1312	PG13,5	M12	9,0	6,0	1	24	50
M-ÜPGM1316	PG13,5	M16	9,0	6,0	1	24	50
M-ÜPGM1320	PG13,5	M20	17,5	6,5	5	24	100
M-ÜPGM1612	PG16	M12	9,0	6,0	1	24	25
M-ÜPGM1616	PG16	M16	9,0	6,0	1	24	25
M-ÜPGM1620	PG16	M20	17,5	6,5	5	27	100
M-ÜPGM1625	PG16	M25	18,5	6,5	5	30	100
M-ÜPGM2116	PG21	M16	11,0	7,0	1	30	25
M-ÜPGM2120	PG21	M20	11,0	7,0	1	30	25
M-ÜPGM2125	PG21	M25	19,0	7,0	5	32	25
M-ÜPGM2132	PG21	M32	21,5	7,5	4	36	25
M-ÜPGM2925	PG29	M25	12,0	8,0	1	38	20
M-ÜPGM2932	PG29	M32	21,0	8,0	1	38	20
M-ÜPGM2940	PG29	M40	21,0	8,0	5	43	50
M-ÜPGM3632	PG36	M32	12,5	8,0	1	50	10
M-ÜPGM3640	PG36	M40	12,5	8,0	1	50	10
M-ÜPGM3650	PG36	M50	23,0	9,0	5	55	25
M-ÜPGM4232	PG42	M32	15,0	10,0	1	55	10
M-ÜPGM4240	PG42	M40	15,0	10,0	1	55	10
M-ÜPGM4250	PG42	M50	25,0	10,0	1	55	10
M-ÜPGM4263	PG42	M63	25,0	10,0	5	65	10
M-ÜPGM4840	PG48	M40	16,5	11,0	1	65	5
M-ÜPGM4850	PG48	M50	16,5	11,0	1	65	5

Aussengewinde (AG) PG
Innengewinde (IG) metrisch

male thread (AG) PG
female thread (IG) metric

M-Ü...



Ausführung construction	Übergangsstück adapter
Werkstoff material	Messing vernickelt nickel-plated brass
Temperatur temperature	bis / up to +200°C
Schutzart protection	-
Gemäß according to	-



Form 1



Form 2



Form 3



Form 4



Form 5

Art. Nr. art. no.	AG male	IG female	GL / AG mm	Form shape	SW mm	VPE Stk unit pcs.
M-ÜMG20038	M20	3/8"	8,0	1	24	50
M-ÜMG20012	M20	1/2"	7,0	5	24	50
M-ÜMG25012	M25	1/2"	8,0	1	30	50
M-ÜMG32034	M32	3/4"	8,0	1	35	25
M-ÜMG32100	M32	1"	8,0	1	35	25
M-ÜMG40100	M40	1"	11,0	1	45	10
M-ÜMG40114	M40	1 1/4"	11,0	5	45	10
M-ÜMG50114	M50	1 1/4"	11,0	1	55	10
M-ÜMG50112	M50	1 1/2"	11,0	5	55	5

Aussengewinde (AG) metrisch male thread (AG) metric
Innengewinde (IG) Zoll female thread (IG) GAS

Art. Nr. Art. no.	AG male	IG female	GL / AG mm	Form shape	SW mm	VPE Stk unit pcs.
M-ÜPGG07014	PG07	1/4"	6,0	5	20	50
M-ÜPGG09018	PG09	1/8"	6,0	1	20	50
M-ÜPGG09014	PG09	1/4"	6,0	5	20	50
M-ÜPGG09038	PG09	3/8"	6,0	5	20	50
M-ÜPGG09012	PG09	1/2"	8,0	5	24	50
M-ÜPGG09034	PG09	3/4"	8,0	5	30	25
M-ÜPGG11014	PG11	1/4"	6,0	1	20	50
M-ÜPGG11038	PG11	3/8"	6,0	5	20	50
M-ÜPGG11012	PG11	1/2"	6,0	5	24	50
M-ÜPGG11034	PG11	3/4"	8,0	5	30	25
M-ÜPGG13014	PG13,5	1/4"	6,0	1	24	50
M-ÜPGG13038	PG13,5	3/8"	6,0	1	24	50
M-ÜPGG13012	PG13,5	1/2"	6,0	5	24	50
M-ÜPGG13034	PG13,5	3/4"	6,0	5	30	50
M-ÜPGG16014	PG16	1/4"	6,0	1	24	50
M-ÜPGG16038	PG16	3/8"	6,0	1	24	50
M-ÜPGG16012	PG16	1/2"	6,0	5	24	50
M-ÜPGG16034	PG16	3/4"	8,0	5	30	50
M-ÜPGG21012	PG21	1/2"	8,0	1	30	50
M-ÜPGG21034	PG21	3/4"	8,0	5	30	25
M-ÜPGG21100	PG21	1"	8,0	5	41	25
M-ÜPGG29034	PG29	3/4"	8,0	1	41	25
M-ÜPGG29100	PG29	1"	8,0	1	41	25
M-ÜPGG29114	PG29	1 1/4"	11,0	5	51	10
M-ÜPGG36100	PG36	1"	14,0	1	51	10
M-ÜPGG36114	PG36	1 1/4"	11,0	1	51	5
M-ÜPGG36112	PG36	1 1/2"	11,0	5	58	5
M-ÜPGG42112	PG42	1 1/2"	11,0	1	65	5
M-ÜPGG42200	PG42	2"	11,0	5	65	5
M-ÜPGG48112	PG48	1 1/2"	11,0	1	65	5
M-ÜPGG48200	PG48	2"	11,0	5	65	5

Aussengewinde (AG) PG male thread (AG) PG
Innengewinde (IG) Zoll female thread (IG) GAS

Art. Nr. Art. no.	AG male	IG female	GL / AG mm	Form shape	SW mm	VPE Stk unit pcs.
M-ÜGAM01416	1/4"	M16	6,0	5	20	50
M-ÜGAM03816	3/8"	M16	6,0	5	20	50
M-ÜGAM03820	3/8"	M20	7,0	5	24	50
M-ÜGAM01216	1/2"	M16	8,0	1	24	50
M-ÜGAM01220	1/2"	M20	7,0	5	24	50
M-ÜGAM01225	1/2"	M25	7,0	5	30	50
M-ÜGAM01232	1/2"	M32	7,0	5	35	50
M-ÜGAM03420	3/4"	M20	8,0	1	30	50
M-ÜGAM03425	3/4"	M25	7,0	5	30	50
M-ÜGAM03432	3/4"	M32	7,0	5	35	25
M-ÜGAM10025	1"	M25	8,0	1	35	25
M-ÜGAM10032	1"	M32	7,0	5	35	25
M-ÜGAM10040	1"	M40	11,0	5	45	10
M-ÜGAM11432	1 1/4"	M32	11,0	1	45	10
M-ÜGAM11440	1 1/4"	M40	11,0	5	45	10
M-ÜGAM11240	1 1/2"	M40	11,0	5	50	10
M-ÜGAM01450	1/4"	M50	14,0	2	55	10
M-ÜGAM11250	1 1/2"	M50	11,0	5	55	5
M-ÜGAM20050	2"	M50	14,0	1	65	10
M-ÜGAM20063	2"	M63	14,0	5	70	5

Aussengewinde (AG) Zoll male thread (AG) GAS
Innengewinde (IG) metrisch female thread (IG) metric

Art. Nr. Art. no.	AG male	IG female	GL / AG mm	Form shape	SW mm	VPE Stk unit pcs.
M-ÜGAPG01407	1/4"	PG07	6,0	5	20	50
M-ÜGAPG01409	1/4"	PG09	6,0	5	20	50
M-ÜGAPG03809	3/8"	PG09	6,0	5	20	50
M-ÜGAPG03811	3/8"	PG11	6,0	5	24	50
M-ÜGAPG01211	1/2"	PG11	8,0	5	24	50
M-ÜGAPG01213	1/2"	PG13,5	8,0	5	24	50
M-ÜGAPG01216	1/2"	PG16	8,0	5	30	50
M-ÜGAPG03413	3/4"	PG13,5	8,0	1	30	50
M-ÜGAPG03416	3/4"	PG16	8,0	1	30	50
M-ÜGAPG03421	3/4"	PG21	8,0	5	35	50
M-ÜGAPG10021	1"	PG21	11,0	1	35	25
M-ÜGAPG10029	1"	PG29	11,0	5	35	25
M-ÜGAPG11429	1 1/4"	PG29	11,0	1	45	10
M-ÜGAPG11436	1 1/4"	PG36	11,0	5	51	10
M-ÜGAPG11236	1 1/2"	PG36	11,0	5	51	5
M-ÜGAPG11242	1 1/2"	PG42	11,0	5	64	5
M-ÜGAPG20042	2"	PG42	11,0	1	64	5

Aussengewinde (AG) Zoll male thread (AG) GAS
Innengewinde (IG) PG female thread (IG) PG

M-MN



Ausführung construction	Gewindenippel nipple
Werkstoff material	Messing vernickelt nickel-plated brass
Temperatur temperature	bis / up to +200°C
Schutzart protection	-
Gemäß according to	-



M-MN



M-N

Serie/series M-MN

Art. Nr. art. no.	IG female	L mm	SW mm	VPE Stk. unit pcs.
M-MNM16E	M16	18	19	20
M-MNM20E	M20	22	24	20
M-MNM25E	M25	24	30	10
M-MNM32E	M32	30	38	10
M-MNM40E	M40	37	45	5
M-MNM50E	M50	37	52	5
M-MNM63E	M63	36	70	5

Art. Nr. art. no.	IG female	L mm	SW mm	VPE Stk. unit pcs.
M-MN01	PG09	18	19	20
M-MN02	PG11	22	22	20
M-MN03	PG13,5	22	24	20
M-MN04	PG16	24	26	20
M-MN05	PG21	24	32	10
M-MN06	PG29	30	42	10
M-MN07	PG36	34	50	5
M-MN08	PG42	35	58	5
M-MN09	PG48	45	64	5

Art. Nr. art. no.	IG female	L mm	SW mm	VPE Stk. unit pcs.
M-MN1E	1/4"	15	15	20
M-MN2E	3/8"	18	19	20
M-MN3E	1/2"	22	24	20
M-MN4E	3/4"	24	30	10
M-MN5E	1"	30	38	10
M-MN6E	1 1/4"	37	45	5
M-MN7E	1 1/2"	35	52	5
M-MN8E	2"	35	65	5

Serie/series M-N

Art. Nr. art. no.	AG male	L mm	ID mm	VPE Stk. unit pcs.
M-NM16	M16	22	12	20
M-NM20	M20	22	15	20
M-NM25	M25	25	20	20
M-NM32	M32	28	25	10
M-NM40	M40	38	34	5
M-NM50	M50	40	40	5
M-NM63	M63	46	57	5

Art. Nr. art. no.	AG male	L mm	ID mm	VPE Stk. unit pcs.
M-NP001	PG07	16	9	20
M-NP002*	PG09	17	11	20
M-NP003	PG11	17	14	20
M-NP004	PG13,5	17	16	20
M-NP005	PG16	17	18	20
M-NP006	PG21	21	23	10
M-NP007	PG29	23	31	10
M-NP008	PG36	25	39	5
M-NP009*	PG42	28	45	2
M-NP010	PG48	31	53	2

Art. Nr. art. no.	AG male	L mm	ID mm	VPE Stk. unit pcs.
M-NG02	1/4"	19	9	20
M-NG03	3/8"	22	12	20
M-NG04*	1/2"	22	15	20
M-NG05*	3/4"	25	20	20
M-NG06*	1"	28	25	10
M-NG07*	1 1/4"	38	34	5
M-NG08*	1 1/2"	40	40	5
M-NG10*	2"	44	53	2
M-NG11*	2 1/2"	40	66	-
M-NG12*	3"	64	80	-

M-VSC / M-TPE



Ausführung construction	Verschlusschraube plug
Werkstoff material	Messing vernickelt nickel-plated brass
Temperatur temperature	bis / up to +200°C
Schutzart protection	-
Gemäß according to	-



M-TPE



M-VSC

Serie/series M-TPE

Art. Nr. art. no.	AG male	GL mm	L mm	SW mm	VPE Stk. unit pcs.
M-TPE16	M16	8	13	19	20
M-TPE20	M20	8	13	22	20
M-TPE25	M25	9	14	30	10
M-TPE32	M32	9	14	35	10
M-TPE40	M40	9	17	42	5
M-TPE50	M50	13	23	55	5
M-TPE63	M63	16	24	81	2

Art. Nr. art. no.	AG male	GL mm	L mm	SW mm	VPE Stk. unit pcs.
M-TPE01	PG07	8	12	14	20
M-TPE02	PG09	8	12	17	20
M-TPE03	PG11	8	13	20	20
M-TPE04	PG13,5	9	14	22	20
M-TPE05	PG16	9	14	24	20
M-TPE06	PG21	10	15	30	10
M-TPE07	PG29	10	15	38	10
M-TPE08*	PG36	13	20	50	5
M-TPE09*	PG42	12	21	55	5
M-TPE10*	PG48	15	25	60	2

Art. Nr. art. no.	AG male	GL mm	L mm	SW mm	VPE Stk. unit pcs.
M-TPE1	1/4"	8	12,0	15	20
M-TPE2	3/8"	8	13,0	19	20
M-TPE3	1/2"	9	14,0	24	20
M-TPE4	3/4"	9	14,0	30	10
M-TPE5	1"	10	15,5	38	10
M-TPE6*	1 1/4"	15	22,0	42	5
M-TPE7*	1 1/2"	15	22,0	50	5
M-TPE8*	2"	17	25,0	60	2
M-TPE9*	2 1/2"	19	29,0	75	2

Serie/series M-VSC

Art. Nr. art. no.	AG male	GL / AG mm	L mm	AD mm	VPE Stk. unit pcs.
M-VSCM12	M12	5,0	7,5	14,0	100
M-VSCM16	M16	5,0	8,0	18,0	100
M-VSCM20	M20	6,0	9,5	22,0	100
M-VSCM25	M25	7,0	11,0	28,0	100
M-VSCM32	M32	8,0	12,0	35,0	50
M-VSCM40	M40	8,0	13,0	43,0	50
M-VSCM50	M50	9,0	15,0	53,0	25
M-VSCM63	M63	10,0	16,0	66,0	10

Art. Nr. art. no.	AG male	GL / AG mm	L mm	AD mm	VPE Stk. unit pcs.
M-VSCPG07	PG07	5,0	8,0	14,0	100
M-VSCPG09	PG09	6,0	9,0	17,0	100
M-VSCPG11	PG11	6,0	9,0	20,0	100
M-VSCPG13	PG13,5	6,5	9,5	22,0	100
M-VSCPG16	PG16	6,5	9,5	24,0	100
M-VSCPG21	PG21	7,0	11,0	30,0	50
M-VSCPG29	PG29	8,0	12,0	39,0	25
M-VSCPG36	PG36	9,0	15,0	50,0	10
M-VSCPG42	PG42	10,0	16,0	57,0	10
M-VSCPG48	PG48	10,0	16,0	64,0	10

M-WM / M-WPG



Ausführung construction	Winkel 90° elbow 90°
Werkstoff material	Zinkdruckguss die-cast zinc
Temperatur temperature	-20°C - +100°C
Schutzart protection	-
Gemäß according to	-



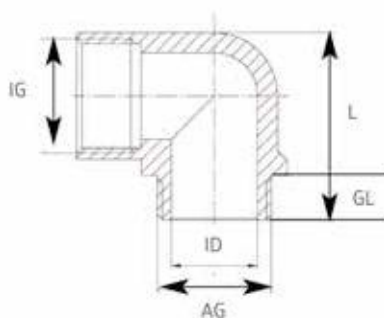
M-WM



M-WPG

Art. Nr. art. no.	AG male	IG female	ID mm	L mm	GL mm	SW mm	VPE Stk. unit pcs.
M-WM16	M16	M16	12,2	38,0	16,0	22	100
M-WM20	M20	M20	16,0	42,0	16,0	26	50
M-WM25	M25	M25	21,0	48,5	16,5	34	50
M-WM32	M32	M32	27,6	57,5	16,5	40	25
M-WM40	M40	M40	35,0	67,0	19,0	50	10

Art. Nr. art. no.	AG male	IG female	ID mm	L mm	GL mm	VPE Stk. unit pcs.
M-WPG09	PG09	PG09	11,5	25,0	6,0	100
M-WPG11	PG11	PG11	14,3	28,0	6,0	50
M-WPG13	PG13,5	PG13,5	16,0	30,5	6,5	50
M-WPG16	PG16	PG16	18,5	33,5	6,5	50
M-WPG21	PG21	PG21	23,8	38,8	6,8	25
M-WPG29	PG29	PG29	32,0	52,0	8,0	10





M-UW 90°/ 45° / M-FV

Ausführung construction	Winkel 90°/45°, Feststellvorrichtung, mit O-Ring elbow 90°/45°, locking device, with o-ring
Werkstoff material	Zinkdruckguss (UW90°) Messing vern. (UW45°) Messing vern. (M-FV) die cast zinc (UW90°) brass nickel-pl. (UW45°) brass nickel-pl. (M-FV)
Temperatur temperature	-20°C - +100°C
Schutzart protection	IP 68
Gemäß according to	-



M-UW 90°



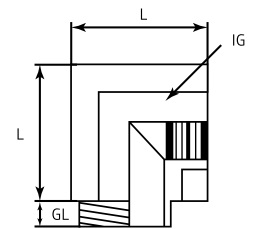
M-UW 45°



M-FV

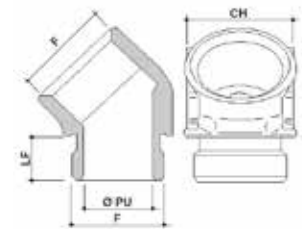
M-UWM 90°

Art. Nr. art. no.	AG male	IG female	L mm	GL mm	VPE Stk unit pcs.
M-UWM16	M16	M16	25,0	7	25
M-UWM20	M20	M20	30,0	7	25
M-UWM25	M25	M25	35,0	7	25
M-UWM32	M32	M32	45,0	10	10



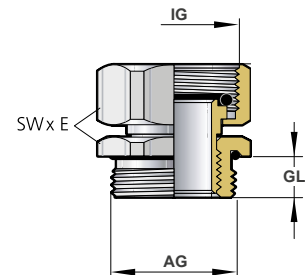
M-UWM 45°

Art. Nr. art. no.	F	LF	PU mm	CH mm	VPE Stk unit pcs.
05232	M16	10	11,5	19	25
05233	M20	10	15	23	20
05234	M25	10	20	28	10
05235	M32	10	27	36	10



M-FV

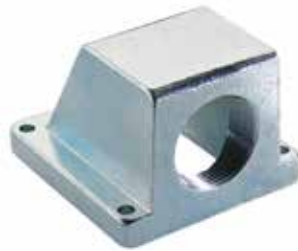
Art. Nr. art. no.	AG male	IG female	GL mm	SW mm	VPE Stk unit pcs.
M-FVM16	M16	M16	6,0	18	25
M-FVM20	M20	M20	6,5	22	25
M-FVM25	M25	M25	7,0	28	25
M-FVM32	M32	M32	8,0	35	10



M-FLW / M-FLWL



Ausführung construction	Flanschwinkel in kurzer oder langer Version flanged angle in short or long version
Werkstoff material	Zinkdruckguss die-cast zinc
Temperatur temperature	-20°C - +100°C
Schutzart protection	IP68 O-Ring flanschseitig o-ring flange sided
Gemäß according to	-



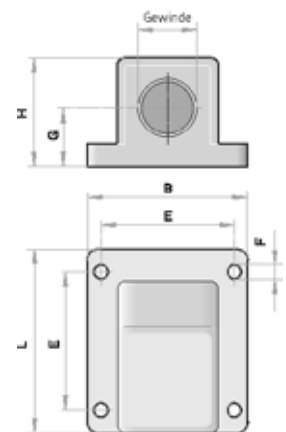
M-FLW



M-FLWL

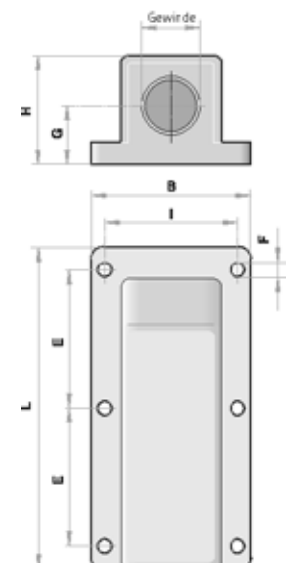
Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	B mm	L mm	H mm	E mm	F mm	G mm	VPE Stk unit pcs.
M-FLWM16	M16	48,0	48,0	30,0	37,0	4,3	15,5	10
M-FLWM20	M20	53,0	56,0	35,0	44,0	5,5	18,0	10
M-FLWM25	M25	63,0	65,0	42,0	54,0	5,5	22,5	10
M-FLWM32	M32	70,0	75,0	52,0	60,0	5,5	27,0	5
M-FLWM40	M40	71,0	75,0	52,0	60,0	5,5	27,0	5
M-FLWM50	M50	89,0	93,0	69,0	72,0	6,5	33,5	2
M-FLWM63	M63	96,0	114,0	74,0	84,0	6,5	37,0	1



Gewindeart PG

Art. Nr. art. no.	Gewinde thread	B mm	L mm	H mm	E mm	F mm	G mm	VPE Stk unit pcs.
M-FLWPG09	PG09	45,0	48,0	30,0	37,0	4,3	15,5	10
M-FLWPG11	PG11	45,0	48,0	30,0	37,0	4,3	15,5	10
M-FLWPG13	PG13,5	53,0	56,0	35,0	44,0	5,5	19,0	10
M-FLWPG16	PG16	53,0	56,0	35,0	44,0	5,5	19,0	10
M-FLWPG21	PG21	63,0	65,0	42,0	54,0	5,5	23,0	5
M-FLWPG29	PG29	71,0	75,0	52,0	60,0	5,5	27,0	5
M-FLWPG36	PG36	89,0	94,0	69,0	72,0	6,5	34,0	2
M-FLWPG42	PG42	96,0	114,0	74,0	84,0	6,5	36,5	1
M-FLWPG48	PG48	96,0	114,0	74,0	84,0	6,5	37,0	1



Gewindeart metrisch

Art. Nr. art. no.	Gewinde thread	B mm	L mm	H mm	E mm	F mm	G mm	VPE Stk unit pcs.
M-FLWLM40	M40	84,0	170,0	71,5	68,0	6,5	33,0	1
M-FLWLM50	M50	84,0	170,0	71,5	68,0	6,5	33,0	1
M-FLWLM63	M63	95,0	203,0	84,0	74,0	6,5	38,0	1

Gewindeart PG

Art. Nr. art. no.	Gewinde thread	B mm	L mm	H mm	E mm	F mm	G mm	VPE Stk unit pcs.
M-FLWLPG29	PG29	84,0	170,0	71,5	68,0	6,5	33,0	1
M-FLWLPG36	PG36	84,0	170,0	71,5	68,0	6,5	33,0	1
M-FLWLPG42	PG42	95,0	208,0	84,0	74,5	6,5	39,0	1
M-FLWLPG48	PG48	95,0	208,0	84,0	74,5	6,5	39,0	1

AP / FAN / LSGGL / FAVT



Ausführung construction	Abschlussring & Schlauchschellen end ring & hose clamps
Werkstoff material	AP: Stahl verzinkt galvanised steel FAN/LSGL/FAVT: Chromstahl AISI 430
Schutzart protection	-
Gemäß according to	-



Abschlussring AP
end ring AP

Schnecken-gewindeschelle
FAN und LSGGL
hose clamp FAN and LSGGL

Schnecken-gewindeschelle mit
Erdungsschraube FAVT
hose clamp with earthing screw
FAVT

Art. Nr. art. no.	min. range	max. range	Band mm	VPE Stk unit pcs.
FAN1	11	17	9	100
FAN2	13	20	9	100
FAN3	19	28	9	50
FAN4	26	38	9	25
FAN5	32	44	9	25
FAN6	38	50	9	25
FAN7	44	56	9	25
FAN8	58	75	9	10

Art. Nr. art. no.	min. range	max. range	Band mm	VPE Stk unit pcs.
FAVT01	13	20	9	100
FAVT02	19	28	9	50
FAVT03	32	44	9	25
FAVT04	44	56	9	25
FAVT05	58	75	9	10

LSGL Art. Nr. art. no.	min. range	max. range	Band mm	VPE Stk unit pcs.
LSGL41001	8	12	9	100
LSGL41002	10	16	9	100
LSGL41003	12	20	9	100
LSGL41004	12	22	9	100
LSGL41005	16	25	9	100
LSGL41006	20	32	9	100
LSGL41007	23	35	9	100
LSGL41008	25	40	9	100
LSGL41009	30	45	9	100
LSGL41010	32	50	9	50
LSGL41011	40	60	9	50
LSGL41012	50	70	9	50
LSGL41013	60	80	9	50
LSGL41014	70	90	9	25
LSGL41015	80	100	9	25
LSGL41016	90	110	9	25

Art. Nr. art. no.	min. Schlauch / conduit	max. Schlauch / conduit	VPE Stk unit pcs.
AP10	10	15	20
AP12	12	18	20
AP15	15	21	20
AP20	20	27	10
AP27	27	35	10
AP36	36	45	5
AP40	40	50	5
AP47	47	57	5
AP58	58	70	2

RB75



Ausführung construction	Adapter UNEF/GAS adapter UNEF/GAS
Werkstoff material	Messing vernickelt nickel-plated brass
Temperatur temperature	bis / up to +200°C
Schutzart protection	-
Gemäß according to	-



Art. Nr. art. no.	F1 IG UNEF female UNEF	F2 IG Zoll female GAS	ID mm	A1 mm	A2 mm	L mm	OD1 mm	OD2 mm	VPE Stk unit pcs.
RB7521	5/8" - 24 f	1/4"	14,8	10,5	11	25	20	16	20
RB7521A	5/8" - 24 f	3/8"	14,8	10,5	11	25	20	19,5	20
RB7522	3/4" - 20 f	1/4"	17,7	10,5	11	25	23	16	20
RB7522A	3/4" - 20 f	3/8"	17,7	10,5	11	25	23	19,5	20
RB7523	7/8" - 20 f	3/8"	20,9	9	10	28	26	19,5	20
RB7523A	7/8" - 20 f	1/2"	20,9	9	10	28	26	24	20
RB7524	1" - 20 f	3/8"	24,1	9	8,5	30	29,5	20,5	20
RB7524A	1" - 20 f	1/2"	24,1	9	8,5	30	29,5	25	20
RB7525	1 1/8" - 18 f	1/2"	27,1	10	8,5	32	32	24	20
RB7525A	1 1/8" - 18 f	3/4"	27,1	10	10	32	32	31	10
RB7526	1 3/16" - 18 f	1/2"	28,7	10	10	30	34	25	20
RB7526A	1 3/16" - 18 f	3/4"	28,7	10	10	30	33	31	10
RB7527	1 1/4" - 18 f	1/2"	30,3	10	10	32	35	24	10
RB7527A	1 1/4" - 18 f	3/4"	30,3	10	10	32	33	29	10
RB7528	1 1/8" - 18 f	3/4"	33,3	10	10	34	38	29,5	10
RB7528A	1 1/8" - 18 f	1"	33,4	10	11	34	38	36	10
RB7529	1 7/16" - 18 f	3/4"	35	10	10	34	40	29,5	10
RB7529A	1 7/16" - 18 f	1"	35	10	11	34	40	36	10
RB7530	1 5/8" - 18 f	3/4"	39,8	10	10	35	44	29,5	10
RB7530A	1 5/8" - 18 f	1"	39,8	10	11	35	44	36	10
RB7531	1 3/4" - 18 f	1"	43,1	11	11	35	49,5	36	5
RB7531A	1 3/4" - 18 f	1 1/4"	43,1	11	16	35	49,5	45,5	5
RB7532	1 7/8" - 18 f	1"	46,2	11	11	40	52	36	10
RB7532A	1 7/8" - 18 f	1 1/4"	46,2	11	16	40	52	45	5
RB7533	2" - 18 f	1"	49,3	11	11	40	55	36	5
RB7533A	2" - 18 f	1 1/4"	49,3	11	12	40	55	45,5	5
RB7533B	2" - 18 f	1 1/2"	49,3	11	12	40	55	51,5	5
RB7534	2 1/16" - 16 f	1"	50,8	11	11	48	56	36	5
RB7534A	2 1/16" - 16 f	1 1/4"	50,8	11	16	48	56	45,5	5
RB7534B	2 1/16" - 16 f	1 1/2"	50,8	11	16	48	56	51,5	5
RB7535	2 1/4" - 16 f	1 1/4"	55,6	11	16	50	60	46	5
RB7535A	2 1/4" - 16 f	1 1/2"	55,6	11	16	50	60	51,5	5
RB7535B	2 1/4" - 16 f	2"	55,6	11	21	50	62	64	5
RB7536	2 5/16" - 16 f	1 1/4"	57,2	11	11	50	62	46	2
RB7536A	2 5/16" - 16 f	1 1/2"	57,2	11	16	50	62	51,5	2
RB7536B	2 5/16" - 16 f	2"	57,2	11	21	50	62	64	2



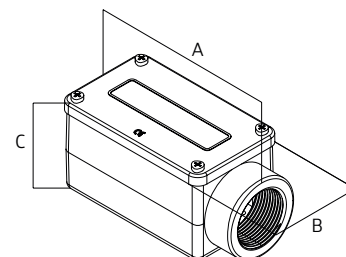
C1-C2A-C3



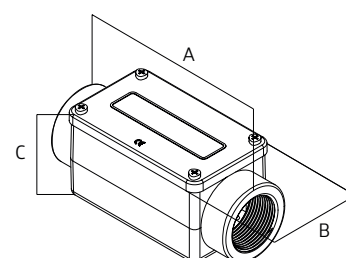
Ausführung construction	Abzweigkasten junction box
Werkstoff material	Aluguss aluminium die cast
Dichtung sealing	TPE
Temperatur temperature	-40°C - +100°C°
Schutzart protection	IP65
Gemäß according to	IEC EN 61386



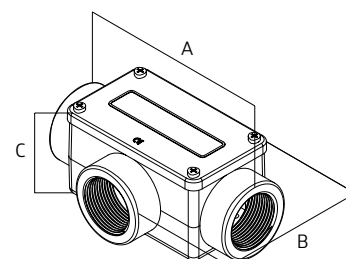
Art. Nr. M art. no. M	metrisch metric	Art. Nr. PG art. no. PG	PG PG	Art. Nr. Zoll art. no. GAS	Zoll GAS	A mm	B mm	C mm	VPE Stk. unit pcs.
		C11009	PG09	C101001	1/4"	82	35	34	10
C1100M16	M16	C110011	PG11	C101002	3/8"	82	35	34	10
C1110M20	M20	C111013	PG13,5	C101101	1/2"	115	45	44	10
		C111016	PG16			115	45	44	10
C1110M25	M25	C111021	PG21	C101102	3/4"	115	45	44	10
C1120M32	M32	C112029	PG29	C10120	1"	128	55	54	5
C1130M40	M40			C101301	1 1/4"	146	70	70	5
C1130M50	M50	C113036	PG36	C101302	1 1/2"	146	70	70	5
		C114048	PG48	C101402	2"	160	80	80	2

C1 - 1 Ausgang
C1 - 1 exit

Art. Nr. M art. no. M	metrisch metric	Art. Nr. PG art. no. PG	PG PG	Art. Nr. Zoll art. no. GAS	Zoll GAS	A mm	B mm	C mm	VPE Stk. unit pcs.
		C2A20009	PG09	C2A02001	1/4"	94	35	34	10
C2A200M16	M16	C2A20011	PG11	C2A02002	3/8"	94	35	34	10
C2A210M20	M20	C2A21013	PG13,5	C2A02101	1/2"	130	45	44	10
		C2A21016	PG16			130	45	44	10
C2A210M25	M25	C2A21021	PG21	C2A02102	3/4"	130	45	44	10
C2A220M32	M32	C2A22029	PG29	C2A0220	1"	150	55	54	5
C2A230M40	M40			C2A02301	1 1/4"	170	70	70	5
C2A230M50	M50	C2A23036	PG36	C2A02302	1 1/2"	170	70	70	5
		C2A24048	PG48	C2A02402	2"	190	80	80	2
				C2A0250	2 1/2"	310	110	102	1
				C2A0260	3"	310	110	118	1

C2A - 2 Ausgänge / gerade
C2A - 1 exits / straight

Art. Nr. M art. no. M	metrisch metric	Art. Nr. PG art. no. PG	PG PG	Art. Nr. Zoll art. no. GAS	Zoll GAS	A mm	B mm	C mm	VPE Stk. unit pcs.
		C350009	PG09	C305001	1/4"	94	46	34	10
C3500M16	M16	C350011	PG11	C305002	3/8"	94	46	34	10
C3510M20	M20	C351013	PG13,5	C305101	1/2"	130	59	44	10
		C351016	PG16			130	59	44	10
C3510M25	M25	C351021	PG21	C305102	3/4"	130	59	44	10
C3520M32	M32	C352029	PG29	C30520	1"	150	76	54	5
C3530M40	M40			C305301	1 1/4"	170	95	70	5
C3530M50	M50	C353036	PG36	C305302	1 1/2"	170	95	70	5
		C354048	PG48	C305402	2"	190	110	80	2
				C30550	2 1/2"	310	144	102	1
				C30560	3"	310	144	118	1

C3 - 3 Ausgänge
C3 - 3 exits

C2-C2D

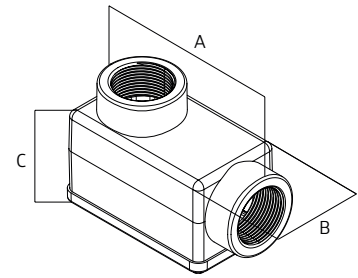


Ausführung construction	Abzweigkasten junction box
Werkstoff material	Aluguss aluminium die cast
Dichtung sealing	TPE
Temperatur temperature	-40°C - +100°C°
Schutzart protection	IP65
Gemäß according to	IEC EN 61386



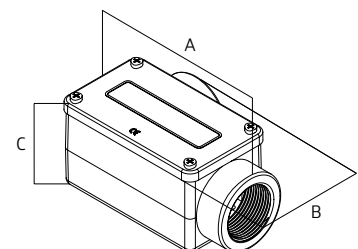
Art. Nr. M art. no. M	metrisch metric	Art. Nr. PG art. no. PG	PG PG	Art. Nr. Zoll art. no. GAS	Zoll GAS	A mm	B mm	C mm	VPE Stk. unit pcs.
		C24009	PG09	C204001	1/4"	82	35	46	10
C2400M16	M16	C240011	PG11	C204002	3/8"	82	35	46	10
C2410M20	M20	C241013		C204101	1/2"	115	45	59	10
		C241016	PG16			115	45	59	10
C2410M25	M25	C241021	PG21	C204102	3/4"	115	45	59	10
C2420M32	M32	C242029	PG29	C20420	1"	128	55	76	5
C2430M40	M40			C204301	1 1/4"	146	70	95	5
C2430M50	M50	C243036	PG36	C204302	1 1/2"	146	70	95	5
		C244048	PG48	C204402	2"	160	80	110	2
				C20450	2 1/2"	276	110	136	1
				C20460	3"	276	110	152	1

C2 - 2 Ausgänge / 90°
C2 - 2 exits / 90°



Art. Nr. M art. no. M	metrisch metric	Art. Nr. PG art. no. PG	PG PG	Art. Nr. Zoll art. no. GAS	Zoll GAS	A mm	B mm	C mm	VPE Stk. unit pcs.
		C2D9009	PG09	C2D09001	1/4"	82	46	34	10
C2D900M16	M16	C2D90011	PG11	C2D09002	3/8"	82	46	34	10
C2D910M20	M20	C2D91013		C2D09101	1/2"	115	59	44	10
		C2D91016	PG16			115	59	44	10
C2D910M25	M25	C2D91021	PG21	C2D09102	3/4"	115	59	44	10
C2D920M32	M32	C2D92029	PG29	C2D0920	1"	128	76	54	5
C2D930M40	M40			C2D09301	1 1/4"	146	95	70	5
C2D930M50	M50	C2D93036	PG36	C2D09302	1 1/2"	146	95	70	5
		C2D94048	PG48	C2D09402	2"	160	110	80	2
				C2D09050	2 1/2"	276	144	102	1
				C2D09060	3"	276	144	118	1

C2D - 2 Ausgänge / nach rechts
C2 - 2 exits / to the right



C2S-C4

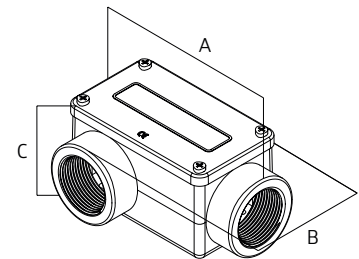


Ausführung construction	Abzweigkasten junction box
Werkstoff material	Aluguss aluminium die cast
Dichtung sealing	TPE
Temperatur temperature	-40°C - +100°C°
Schutzart protection	IP65
Gemäß according to	IEC EN 61386



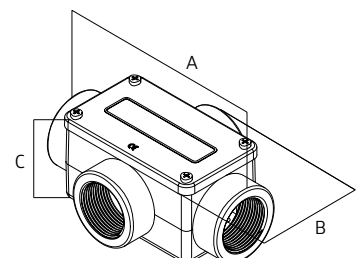
Art. Nr. M art. no. M	metrisch metric	Art. Nr. PG art. no. PG	PG PG	Art. Nr. Zoll art. no. GAS	Zoll GAS	A mm	B mm	C mm	VPE Stk. unit pcs.
		C2S10009	PG09	C2S010001	1/4"	82	46	34	10
C2S1000M16	M16	C2S100011	PG11	C2S010002	3/8"	82	46	34	10
C2S1010M20	M20	C2S101013	PG13,5	C2S010101	1/2"	115	59	44	10
		C2S101016	PG16			115	59	44	10
C2S1010M25	M25	C2S101021	PG21	C2S010102	3/4"	115	59	44	10
C2S1020M32	M32	C2S102029	PG29	C2S01020	1"	128	76	54	5
C2S1030M40	M40			C2S010301	1 1/4"	146	95	70	5
C2S1030M50	M50	C2S103036	PG36	C2S010302	1 1/2"	146	95	70	5
		C2S104048	PG48	C2S010402	2"	160	110	80	2
				C2S01050	2 1/2"	276	144	102	1
				C2S01060	3"	276	144	118	1

C2S - 2 Ausgänge / nach links
C2S - 2 exits / to the left



Art. Nr. M art. no. M	metrisch metric	Art. Nr. PG art. no. PG	PG PG	Art. Nr. Zoll art. no. GAS	Zoll GAS	A mm	B mm	C mm	VPE Stk. unit pcs.
		C46009	PG09	C406001	1/4"	94	57	34	10
C4600M16	M16	C460011	PG11	C406002	3/8"	94	57	34	10
C4610M20	M20	C461013	PG13,5	C406101	1/2"	130	74	44	10
		C461016	PG16			130	74	44	10
C4610M25	M25	C461021	PG21	C406102	3/4"	130	74	44	10
C4620M32	M32	C462029	PG29	C40620	1"	150	97	54	5
C4630M40	M40			C406301	1 1/4"	170	120	70	5
C4630M50	M50	C463036	PG36	C406302	1 1/2"	170	120	70	5
		C464048	PG48	C406402	2"	190	140	80	2
				C40650	2 1/2"	310	178	102	1
				C40660	3"	310	178	118	1

C4 - 4 Ausgänge
C4 - 4 exits



LA



Ausführung construction	Gehäuse box
Werkstoff material	Aluminium aluminium
Dichtung sealing	PU
Temperatur temperature	-40°C - +90°C
Schutzart protection	IP66 / 68 / 69K
Gemäß according to	-



Art. Nr. LA art. no. LA	Länge mm length mm	Breite mm width mm	Höhe mm height mm	VPE Stk. unit pcs.
LA40	50	45	30	1
LA60	58	64	34	1
LA61	98	64	34	1
LA62	150	64	34	1
LA64	185	64	34	1
LA80	75	80	57	1
LA81	125	80	57	1
LA82	175	80	57	1
LA83	250	80	52	1
LA102	100	100	80	1
LA103	160	100	80	1
LA101	200	100	80	1
LA100	230	100	110	1
LA122	122	120	80	1
LA120	122	120	90	1
LA124	220	120	80	1
LA121	220	120	90	1
LA128	220	120	120	1
LA126	360	120	80	1
LA140	140	140	90	1
LA141	200	140	90	1
LA160	160	160	90	1
LA161	260	160	90	1
LA162	360	160	90	1
LA163	560	160	90	1
LA181	180	180	100	1
LA180	280	180	100	1
LA234	200	230	110	1
LA235	200	230	180	1
LA230	280	230	110	1
LA231	330	230	110	1
LA236	330	230	180	1
LA232	400	230	110	1
LA238	400	230	224	1
LA233	600	230	110	1
LA310	400	310	110	1
LA315	400	310	140	1
LA311	400	310	180	1
LA316	400	310	226	1
LA312	600	310	110	1
LA313	600	310	180	1
LA600	600	600	200	1

Weitere Größen auf Anfrage.
Weitere Dichtungen verfügbar:
CR (-40°C bis +100°C)
Silikon (-60°C bis +130°C)

Erhältliches Zubehör:
z.B. Tragschienen, Erdungsschienen,
Montageplatten, Innen- und Außengelenke.

Auf Wunsch kann auch eine Bearbeitung und/
oder Bestückung des Gehäuses nach Ihren
Vorgaben vorgenommen werden.

Additional sizes on request.
Other sealings available:
CR (-40°C up to +100°C)
Silicone (-60°C up to +130°C)

Accessories available:
e.g. mounting rails, earthing rails, mounting
plates, inner and outer joints.

Modifications and assembly installations on
request.

LIG



Ausführung construction	Gehäuse box
Werkstoff material	Edelstahl stainless steel
Dichtung sealing	PU
Temperatur temperature	-40°C - +90°C
Schutzart protection	IP66 / 68 / 69K
Gemäß according to	-



- ! LIG - mit Befestigungsbohrung
LIG - with fixing wholes
- ! LIGO - ohne Befestigungsbohrungen
LIGO - without fixing wholes

Art. Nr. LIG art. no. LIG	Art. Nr. LIGO art. no. LIGO	Länge mm length mm	Breite mm width mm	Höhe mm height mm	VPE Stk. unit pcs.
LIG100	LIGO100	100	100	61	1
LIG101	LIGO101	150	100	61	1
LIG150	LIGO150	150	150	81	1
LIG102		200	100	61	1
LIG200	LIGO200	200	200	81	1
LIG201	LIGO201	200	200	121	1
LIG151		300	150	81	1
LIG202		300	200	81	1
LIG203	LIGO203	300	200	121	1
LIG300		300	300	121	1
LIG301		300	300	161	1
LIG380		380	380	161	1
LIG152		400	150	81	1
LIG204		400	200	121	1
LIG302		400	300	161	1
LIG303		500	300	161	1
LIG400		500	400	161	1
LIG600		600	200	121	1

Weitere verfügbare Edelstahl-Gehäuse:
Type LIGS: Industriegehäuse mit Scharnier
(verfügbare Maße: 200x250x97 mm bis
600x380x217 mm)

Type LKSS: Edelstahl-Kleinschaltschrank
mit scharnierter Tür (verfügbare Maße:
200x300x155 mm bis 600x760x210 mm)

Weitere Größen und
EMV-Ausführung auf Anfrage.
Weitere Dichtungen verfügbar:
Polyurethan (PU)

Other available Stainless steel boxes:
Type LIGS: Industrial housing with hinge
(available sizes: 200x250x97 mm
to 600x380x217 mm)

Type LKSS: Stainless steel compact
cabinet with hinged door (available sizes:
200x300x155 mm to 600x760x210 mm)

Additional sizes and
emc-versions on request.
Other sealings also available:
polyurethan (PU)

LM-LT-LP



Ausführung construction	Gehäuse plastic-box
Werkstoff material	Makrolon (LM) makrolon (LM)
Temperatur temperature	-40°C - +120°C
Werkstoff material	ABS (LT) ABS (LT)
Temperatur temperature	-40°C - +80°C
Werkstoff material	Polyester (LP) polyester (LP)
Temperatur temperature	-40°C - +120°C
Schutzart protection	IP66



Auf Anfrage:
mit Bearbeitung
On request:
machined

Art. Nr. LM art. no. LM	Art. Nr. LT art. no. LT	Länge mm length mm	Breite mm width mm	Höhe mm height mm	VPE Stk. unit pcs.
LM50	LT50	52	50	35	1
LM51	LT51	65	50	35	1
LM80	LT80	82	80	55	1
LM81	LT81	82	80	85	1
LM82	LT82	120	80	55	1
LM83	LT83	120	80	85	1
LM84	LT84	160	80	55	1
LM85	LT85	160	80	85	1
LM120	LT120	122	120	55	1
LM123	LT123	122	120	85	1
LM125	LT125	160	120	90	1
LM121	LT121	200	120	75	1
LM127	LT127	200	120	90	1
LM122	LT122	240	120	100	1
LM150	LT150	200	150	75	1
LM160	LT160	240	160	90	1
LM163	LT163	240	160	120	1
LM161	LT161	250	160	90	1
LM162	LT162	250	160	120	1
LM200	LT200	360	200	150	1
LM230	LT230	300	230	86	1
LM231	LT231	300	230	110	1

Art. Nr. LP art. no. LP	Länge mm length mm	Breite mm width mm	Höhe mm height mm	VPE Stk. unit pcs.
LP50	55	55	37	1
LP51	55	55	59	1
LP75	80	75	55	1
LP76	80	75	75	1
LP77	110	75	55	1
LP78	110	75	75	1
LP79	160	75	55	1
LP73	160	75	75	1
LP80	190	75	55	1
LP81	190	75	75	1
LP82	230	75	55	1
LP83	230	75	75	1
LP101	320	100	80	1
LP120	122	120	90	1
LP121	220	120	90	1
LP160	160	160	90	1
LP161	260	160	90	1
LP162	360	160	90	1
LP163	560	160	90	1
LP251	255	250	120	1
LP252	255	250	160	1
LP250	400	250	120	1
LP253	400	250	160	1
LP254	600	250	120	1
LP360	360	360	90	1
LP400	400	405	120	1
LP401	401	406	201	1

Mit Klarsichtdeckel lieferbar.
Auch mit Schraubverschluss
lieferbar. Sonderfarben, andere
Größen, höhere IP-Schutzarten
und UL/CSA-Zulassung auf Anfrage.

Available with clear lid.
Also available as screw closure.
Special colours, additional sizes,
higher IP-rates and UL/CSA-
recognition on request.

Weitere Größen auf Anfrage.
Weitere Dichtungen verfügbar:
CR (-40°C bis +100°C)
Silikon (-60°C bis +130°C)
Additional sizes on request.

Other sealings available:
CR (-40°C up to +100°C)
Silicone (-60°C up to +130°C)

Gebrauchsempfehlungen - JAW-FIT

Suggestions for correct use - JAW-FIT

IP66



1

Das Rohr in das Verbindungsstück hineinstecken und bis zum Anschlag drehen.

Push the conduit into the connector and twist it fully to the end.



2

Das Rohr leicht herausziehen, um sicherzustellen, dass das JAW-FIT System richtig eingerastet ist.

Slightly pull back the conduit to ensure that the JAW-FIT System is fully engaged.



3

Benutzen Sie ein einfaches Werkzeug OT0748 zum erneuten Öffnen.

Use an easy tool OT0748 to reopen.

IP68 / IP69K



1

Legen Sie die IP68 Verschlusskappe auf das Endstück des Rohres.

Fit the IP68 seal cap onto the cut end of the conduit.



2

Drehen Sie den JAW-FIT Verschlussring auf die Öffnung. Drücken Sie das Rohr mit der angebrachten Verschlusskappe auf die Verschraubung. Prüfen Sie, ob das Rohr komplett in die Verschraubung gedrückt wurde.

Twist the JAW-FIT locking ring to the opening position. Push the conduit with applied seal cap into the connector. Make sure that the conduit is fully pushed into the connector.



3

Rasten Sie das Rohr ein, indem Sie das JAW-FIT System zurück zur Verschlussstelle drehen.*

Engage the conduit twisting the JAW-FIT system back to the locking position.*

* Aus Sicherheitsgründen wird das JAW-FIT Element nicht passen, falls die Verschlusskappe nicht richtig angebracht sein sollte.

* For safety reasons the JAW-FIT element will not fit if the seal cap is not fully installed.



4

Das Rohr leicht herausziehen, um sicherzustellen, dass das JAW-FIT System richtig eingerastet ist.

Slightly pull back the conduit to ensure that the JAW-FIT System is fully engaged.



5

Benutzen Sie ein einfaches Werkzeug zum erneuten Öffnen.

Use an easy tool to reopen.

ISO-Gewinde nach DIN 60423 ISO thread according to EN 60423

ISO-Gewinde ISO thread	Steigung mm pitch mm	Außendurchmesser mm outside diameter mm	Kerndurchmesser mm core diameter mm	Durchgangsbohrung mm clearance hole mm
10	1,0	10	9,0	10,2
12	1,5	12	10,5	12,2
16	1,5	16	14,5	16,2
20	1,5	20	18,5	20,2
25	1,5	25	23,5	25,2
32	1,5	32	30,5	32,2
40	1,5	40	38,5	40,2
50	1,5	50	48,5	50,2
63	1,5	63	61,5	63,2
75	1,5	75	73,5	75,2
80	2,0	80	78,0	80,2
90	2,0	90	88,0	90,2

PG-Gewinde nach DIN 40430 PG thread according to EN 40430

PG-Gewinde PG thread	Steigung mm pitch mm	Außendurchmesser mm outside diameter mm	Kerndurchmesser mm core diameter mm	Durchgangsbohrung mm clearance hole mm
7	1,270	12,5	11,28	12,7
9	1,410	15,2	13,86	15,4
11	1,410	18,6	17,26	18,8
13	1,410	20,4	19,06	20,7
16	1,410	22,5	21,16	22,8
21	1,587	28,3	26,78	28,6
29	1,587	37,0	35,48	37,4
36	1,587	47,0	45,58	47,5
42	1,587	54,0	52,48	54,5
48	1,588	59,3	57,48	59,8

ZOLL-Gewinde zylindrisch ISO 228-1 GAS thread ISO 228-1

ZOLL-Gewinde GAS thread	Steigung mm Pitch mm	Außendurchmesser mm Outside diameter mm	Kerndurchmesser mm Core diameter mm	Durchgangsbohrung mm Clearance hole mm
1/4"	1,337	13,157	11,145	13,4
3/8"	1,337	16,662	14,950	17,0
1/2"	1,814	20,955	18,631	21,3
3/4"	1,814	26,441	24,117	26,8
1"	2,309	33,249	30,291	33,7
1 1/4"	2,309	41,910	38,952	42,4
1 1/2"	2,309	47,803	44,825	48,3
2"	2,309	59,614	56,656	60,2
2 1/2"	2,309	75,184	72,226	75,7
3"	2,309	87,884	84,926	88,5
3 1/2"	2,309	100,330	97,372	101,0
4"	2,309	113,030	110,072	114,0

NPT (konisch) Rohrgewinde NPT (conical) pipe thread

NPT-Gewinde NPT thread	Steigung mm Pitch mm	Außendurchmesser mm Outside diameter mm	Kerndurchmesser mm Core diameter mm	Durchgangsbohrung mm Clearance hole mm
1/4"	1,411	13,616	18	13,4
3/8"	1,411	17,055	18	17,0
1/2"	1,814	21,223	14	21,3
3/4"	1,814	26,568	14	26,8
1"	2,208	33,227	11 1/2	33,7
1 1/4"	2,208	41,984	11 1/2	42,4
1 1/2"	2,208	48,053	11 1/2	48,3
2"	2,208	60,091	11 1/2	60,2

Übersicht zum IP-Schutzgrad

Overview of the IP degree of protection

Erste Kennziffer first parameter	Berührungsschutz protection against accidental contact	Fremdkörperschutz protection against foreign objects	Zweite Kennziffer second parameter	Wasserschutz protection against water
0	Kein besonderer Schutz No special protection		0	Kein besonderer Schutz No special protection
1	Gegen große Körperflächen Against large surface areas	Große Fremdkörper Durchmesser > 50 mm Against foreign objects Diameter > 50 mm	1	Gegen senkrecht fallendes Tropfwasser Against vertically falling dripping water
2	Gegen Finger oder ähnlich große Gegenstände Against fingers or other objects of a similar size	Mittelgroße Fremdkörper Durchmesser > 12 mm Medium-sized foreign objects with diameter > 12 mm	2	Gegen schräg fallendes Tropfwasser (bis 15° Abweichung von der Senkrechten) Against dripping water falling at an angle (up to 15° deviation from vertical)
3	Gegen Werkzeuge, Drähte und ähnliches mit einer Dicke von > 2,5 mm Against tools, cables and similar with a thickness of > 2.5 mm	Kleine Fremdkörper Durchmesser > 2,5 mm Small foreign objects Diameter > 2.5 mm	3	Gegen Sprühwasser (beliebige Richtung bis 60° Abweichung von der Senkrechten) Against spray water (any direction up to 60° deviation from vertical)
4	Gegen Werkzeuge, Drähte und ähnliches mit einer Dicke von > 1 mm Against tools, cables and similar with a thickness of > 1mm	Kornförmige Fremdkörper Durchmesser > 1 mm Granular foreign objects with diameter > 1 mm	4	Gegen Spritzwasser aus allen Richtungen Against splash water from all directions
5	Vollständiger Schutz Full protection	Staubgeschützt; Staubablagerungen sind zulässig, dürfen aber in ihrer Menge nicht die Funktion des Gerätes gefährden Protected against dust; dust deposits are permitted but should not be in such an amount that they put the operation of the device at risk	5	Gegen Strahlwasser aus einer Düse aus allen Richtungen Against jet water from a nozzle from all directions
6	Vollständiger Schutz Full protection	Staubdicht Dust-tight	6	Gegen Überflutung Against flooding
			7	Gegen Eintauchen Against immersion
			8	Gegen Untertauchen Against immersion

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Lagerhinweis Polyamid Spritzgussteile Storing instruction for polyamide injection moulded parts

- » Polyamid konditioniert in einem Zeitraum von ein bis drei Monaten, d.h. es erfolgt eine Wasser- bzw. Feuchtigkeitsaufnahme bis zu 2,5 % des Teilgewichtes und sollte deshalb bei einer Temperatur von +15°C bis +25°C bei einer Luftfeuchtigkeit von 55 % bis 75 % gelagert werden.
- » Die Lagerung sollte in verschweißten Beuteln erfolgen und in geschlossenen Räumen.
- » Teileentnahme aus den Beuteln sollte erst unmittelbar vor Verarbeitung erfolgen.
- » Der Beutel ist nach der Artikelentnahme sofort wieder zu verschließen.
- » Polyamide conditions during a period of 1 to 3 months, that might effect a possible water-/humidity absorption up to 2,5 % of the part weight. We recommend a storing temperature of +15°C to +25°C at an atmospheric humidity of 55 % to 75 %.
- » Polyamide articles should be stored in welded bags and in closed rooms.
- » Do not withdraw parts out of the bag until further processing.
- » The bag must be closed straight after parts have been withdrawn.

LAGRA

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