

SKINTOP® cable glands polyamide metric

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SKINTOP® cable glands polyamide PG

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SKINDICHT® EMC/Earthing	727
SKINDICHT® special seal cable glands	729
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SKINDICHT® Blind plugs	736
SKINDICHT® Reducers	738
SKINDICHT® Enlargers	740
SKINDICHT® Adapter	741
SKINDICHT® fittings	743
SKINDICHT® dust protection	744
SKINDICHT® sealing rings / incised seal	745
SKINDICHT® Earthing sleeves	747
SKINDICHT® Antikink sleeves / sealing cones	748
	704

SKINTOP®

Cable glands



SKINTOP® cable glands polyamide metric				SKINDICHT® SE-M	684
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PG/metric	638			SKINTOP® Counter nuts	
SKINTOP® ST-M Secured by a single turn of the hand	640			SKINDICHT® SM-M	687
SKINTOP® ST-M / SKINTOP® STR-M	641	New		SKINDICHT® SM-PE-M	687
SKINTOP® CLICK / SKINTOP® CLICK-R	643	New		SKINDICHT® Blind plugs	
SKINTOP® ST-HF-M	644	New		SKINDICHT® BLK-M / SKINDICHT® BLK-GL-M	688
SKINTOP® bending protection				SKINTOP® CLICK BLK	689
SKINTOP® BS-M	645			SKINDICHT® BL-M	690
SKINTOP® CLICK BS	646			SKINDICHT® BL-M hexagonal	691
SKINTOP® BT-M	647			SKINDICHT® BL-M ATEX	691
SKINTOP® explosion proof				SKINDICHT® Reducers	
SKINTOP® K-M ATEX plus / SKINTOP® KR-M ATEX plus	648	New		SKINDICHT® KU-M	692
SKINTOP® K-M ATEX plus blue / SKINTOP® KR-M ATEX plus blue	649	New		SKINDICHT® MR-M	692
				SKINDICHT® MR-M hexagonal	693
				SKINDICHT® MR-M ATEX	693
SKINTOP® cable glands nickel plated brass metric				SKINDICHT® Enlargers	
SKINTOP® MS-M				SKINDICHT® ECU-M	694
SKINTOP® MS-M / SKINTOP® MSR-M	650	New		SKINDICHT® ME-M	694
SKINTOP® MSR-M-XL / SKINTOP® MS-M-XL	651			SKINDICHT® ME-M ATEX	695
SKINTOP® COLD				SKINDICHT® Adapter	
SKINTOP® COLD / SKINTOP® COLD-R	652	New		SKINDICHT® MA-M/PG / SKINDICHT® MA-M/NPT	696
SKINTOP® for industrial connector				SKINDICHT® fittings	
SKINTOP® MS-IS-M	653			SKINDICHT® ZS-M	697
SKINTOP® explosion proof				SKINDICHT® ZSE-M	698
SKINTOP® MS-M ATEX / SKINTOP® MSR-M ATEX	654			SKINDICHT® Compression screws, washer	
SKINTOP® EMC/Earthing	655			SKINDICHT® D-M	699
SKINTOP® EMC/Earthing				SKINDICHT® U-M	699
SKINTOP® MS-SC-M	657			SKINDICHT® sealing rings / incised seal	
SKINTOP® MS-M BRUSH	658	New		SKINDICHT® E-M	700
SKINTOP® explosion proof				SKINDICHT® O-Ring Perbunan® metric	700
SKINTOP® MS-M ATEX BRUSH	659	New		SKINDICHT® O-Ring VITON® metric	701
				SKINDICHT® JT PTFE metric	701
SKINTOP® cable gland accessories metric				SKINDICHT® Ducts	
SKINDICHT® counter nuts				SKINDICHT® WN-M	702
SKINTOP® GMP-GL-M	660			SKINDICHT® DTN	702
SKINTOP® GMP-HF-M	661	New		SKINDICHT® LA	702
SKINTOP® multiple seal / dust protection				SKINMATIC® mounting tools	
SKINTOP® DIX-M	662			SKINMATIC® mounting tools metric	
SKINTOP® DIX-M AUTOMATION	663	New		SKINMATIC® QUICK Set 1	703
				SKINMATIC® MH Set	703
SKINTOP® cable glands nickel plated brass metric				SKINMATIC® KB-M	704
SKINTOP® explosion proof				SKINMATIC® SB-M	704
SKINTOP® SDV-M ATEX / SKINTOP® SDVR-M ATEX	664			SKINMATIC® GB-M	704
SKINTOP® multiple seal / dust protection				SKINMATIC® RZ	704
SKINTOP® DIX-DV / SKINTOP® SD-M / SKINTOP® DV-M	665			Cable glands - other thread types	
SKINTOP® Cable Bushing System				SKINTOP® cable glands polyamide NPT	
SKINTOP® Cable Bushing System				SKINTOP® NPT	705
SKINTOP® CUBE	666	New		SKINTOP® cable glands nickel plated brass NPT	
Cablefix	667			SKINTOP® MS NPT	706
SKINDICHT® cable glands plastic or metal metric				SKINTOP® cable glands polyamide PG	
SKINDICHT® standard cable gland metric				SKINTOP® ST	
SKINDICHT® SVRN-M / SKINDICHT® SVRE-M	668			SKINTOP® ST / SKINTOP® STR	708
SKINDICHT® SVRX	669			SKINTOP® bending protection	
SKINDICHT® Flat cable glands				SKINTOP® BS	709
SKINDICHT® SVFK-M	670			SKINTOP® BT	709
SKINDICHT® SVF-M	671			SKINTOP® cable glands nickel plated brass PG	
SKINDICHT® strain relief / Bending protection				SKINTOP® MS	
SKINDICHT® SKZ-M	672			SKINTOP® MSR / SKINTOP® MS	710
SKINDICHT® SHZ-M	673			SKINTOP® MS-XL / SKINTOP® MSR-XL	711
SKINDICHT® SR-M	674			SKINTOP® MS-SC	712
SKINDICHT® SR-SV-M	675			SKINDICHT® cable gland accessories PG	
SKINDICHT® EMC/Earthing				SKINDICHT® counter nuts	
SKINDICHT® SHVE-M	676			SKINTOP® GMP-GL	713
SKINDICHT® SRE-M	677			SKINTOP® multiple seal / dust protection	
SKINDICHT® special seal cable glands				SKINTOP® DIX	714
SKINDICHT® SHV-M	678			SKINTOP® DIX-ASI	715
SKINDICHT® SHV-M-VITON®	679			SKINTOP® DIX-DV / SKINTOP® SD / SKINTOP® DV	716
SKINDICHT® MINI	680			SKINDICHT® cable glands plastic or metal PG	
SKINDICHT® CN-M	681			SKINDICHT® standard cable gland PG/DIN	
SKINDICHT® Angle cable glands				SKINDICHT® SVRN / SKINDICHT® SVRE	717
SKINDICHT® KW-M	682				
SKINDICHT® RWV-M	683				
SKINDICHT® RWV-M without E+D	684				

SKINDICHT® Flat cable glands		SKINDICHT® MR	739
SKINDICHT® SVFK	718	SKINDICHT® Enlargers	
SKINDICHT® SVF	719	SKINDICHT® EKU	740
SKINDICHT® FL	720	SKINDICHT® ME	740
SKINDICHT® strain relief / Bending protection		SKINDICHT® Adapter	
SKINDICHT® SH	721	SKINDICHT® A-PG/M	741
SKINDICHT® SHZ	722	SKINDICHT® MA-PG/M	742
SKINDICHT® SK	723	SKINDICHT® fittings	
SKINDICHT® SKZ	724	SKINDICHT® ZS/ZS-XL	743
SKINDICHT® SR	725	SKINDICHT® dust protection	
SKINDICHT® SR-SV	726	SKINDICHT® STK	744
SKINDICHT® EMC/Earthing		SKINDICHT® sealing rings / incised seal	
SKINDICHT® SHVE	727	SKINDICHT® E	745
SKINDICHT® SRE	728	SKINDICHT® EV	745
SKINDICHT® special seal cable glands		SKINDICHT® O-Ring Perbunan® PG	745
SKINDICHT® SHV	729	SKINDICHT® O-Ring Viton® PG	746
SKINDICHT® SHV VITON®	730	SKINDICHT® JT PTFE PG	746
SKINDICHT® CN	731	SKINDICHT® Earthing sleeves	
SKINDICHT® Angle cable glands		SKINDICHT® EH	747
SKINDICHT® RWV	732	SKINDICHT® Antikink sleeves / sealing cones	
SKINDICHT® SE	733	SKINDICHT® SHV cone seal	748
SKINTOP® cable gland accessories PG		SKINDICHT® SNR	749
SKINTOP® Counter nuts			
SKINDICHT® GMK	734		
SKINDICHT® SM / SKINDICHT® SM-PE	735		
SKINDICHT® Blind plugs			
SKINDICHT® BLK / BLK-GL	736		
SKINDICHT® BL	737		
SKINDICHT® Reducers			
SKINDICHT® KU, KUS, KUK	738		

SKINTOP® BS	709	SKINDICHT® KW-M	682
SKINTOP® BS-M	645	SKINDICHT® LA	702
SKINTOP® BT	709	SKINDICHT® MA-M/NPT	696
SKINTOP® BT-M	647	SKINDICHT® MA-M/PG	696
SKINTOP® CLICK	643	SKINDICHT® MA-PG/M	742
SKINTOP® CLICK BLK	689	SKINDICHT® ME	740
SKINTOP® CLICK BS	646	SKINDICHT® ME-M	694
SKINTOP® CLICK-R	643	SKINDICHT® ME-M ATEX	695
SKINTOP® COLD	652	SKINDICHT® MINI	680
SKINTOP® COLD-R	652	SKINDICHT® MR	739
SKINTOP® CUBE	666	SKINDICHT® MR-M	692
SKINTOP® DIX AUTOMATION	714	SKINDICHT® MR-M ATEX	693
SKINTOP® DIX-ASI	715	SKINDICHT® MR-M hexagonal	693
SKINTOP® DIX-DV	665	SKINDICHT® O-Ring Perbunan® metric	700
SKINTOP® DIX-DV	716	SKINDICHT® O-Ring Perbunan® PG	745
SKINTOP® DIX-M	662	SKINDICHT® O-Ring VITON® metric	701
SKINTOP® DIX-M AUTOMATION	663	SKINDICHT® O-Ring Viton® PG	746
SKINTOP® DV	716	SKINDICHT® RWV	732
SKINTOP® GMP-GL	713	SKINDICHT® RWV-M	683
SKINTOP® GMP-GL-M	660	SKINDICHT® RWV-M without E+D	684
SKINTOP® GMP-HF-M	661	SKINDICHT® SE	733
SKINTOP® K-M ATEX plus	648	SKINDICHT® SE-M	684
SKINTOP® K-M ATEX plus blue	649	SKINDICHT® SE-M 220/320	686
SKINTOP® KR-M ATEX plus	648	SKINDICHT® SE-M without E+D	685
SKINTOP® KR-M ATEX plus blue	649	SKINDICHT® SH	721
SKINTOP® MS	710	SKINDICHT® SHV	729
SKINTOP® MS-IS-M	653	SKINDICHT® SHV cone seal	748
SKINTOP® MS-M	650	SKINDICHT® SHVE	727
SKINTOP® MS-M ATEX	654	SKINDICHT® SHVE-M	676
SKINTOP® MS-M ATEX BRUSH	659	SKINDICHT® SHV-M	678
SKINTOP® MS-M BRUSH	658	SKINDICHT® SHV-M-VITON®	679
SKINTOP® MS-M-XL	651	SKINDICHT® SHV VITON®	730
SKINTOP® MS NPT	706	SKINDICHT® SHZ	722
SKINTOP® MSR	710	SKINDICHT® SHZ-M	673
SKINTOP® MSR-M	650	SKINDICHT® SK	723
SKINTOP® MSR-M ATEX	654	SKINDICHT® SKZ	724
SKINTOP® MSR-M-XL	651	SKINDICHT® SKZ-M	672
SKINTOP® MSR-XL	711	SKINDICHT® SM	735
SKINTOP® MS-SC	712	SKINDICHT® SM-M	687
SKINTOP® MS-SC-M	657	SKINDICHT® SM-PE	735
SKINTOP® MS-XL	711	SKINDICHT® SM-PE-M	687
SKINTOP® NPT	705	SKINDICHT® SNR	749
SKINTOP® SD	716	SKINDICHT® SR	725
SKINTOP® SDV-M ATEX	664	SKINDICHT® SRE	728
SKINTOP® SDVR-M ATEX	664	SKINDICHT® SRE-M	677
SKINTOP® ST	708	SKINDICHT® SR-M	674
SKINTOP® ST-HF-M	644	SKINDICHT® SR-SV	726
SKINTOP® ST-M	641	SKINDICHT® SR-SV-M	675
SKINTOP® STR	708	SKINDICHT® STK	744
SKINTOP® STR-M	641	SKINDICHT® SVF	719
SKINDICHT® A-PG/M	741	SKINDICHT® SVFK	718
SKINDICHT® BL	737	SKINDICHT® SVFK-M	670
SKINDICHT® BLK / BLK-GL	736	SKINDICHT® SVF-M	671
SKINDICHT® BLK-GL-M	688	SKINDICHT® SVRE	717
SKINDICHT® BLK-M	688	SKINDICHT® SVRE-M	668
SKINDICHT® BL-M	690	SKINDICHT® SVRN	717
SKINDICHT® BL-M ATEX	691	SKINDICHT® SVRN-M	668
SKINDICHT® BL-M hexagonal	691	SKINDICHT® SVRX	669
SKINDICHT® CN	731	SKINDICHT® U-M	699
SKINDICHT® CN-M	681	SKINDICHT® WN-M	702
SKINDICHT® D-M	699	SKINDICHT® ZS/ZS-XL	743
SKINDICHT® DTN	702	SKINDICHT® ZSE-M	698
SKINDICHT® E	745	SKINDICHT® ZS-M	697
SKINDICHT® EH	747	SKINMATIC® GB-M	704
SKINDICHT® EKU	740	SKINMATIC® KB-M	704
SKINDICHT® EKU-M	694	SKINMATIC® MH Set	703
SKINDICHT® E-M	700	SKINMATIC® QUICK Set 1	703
SKINDICHT® EV	745	SKINMATIC® RZ	704
SKINDICHT® FL	720	SKINMATIC® SB-M	704
SKINDICHT® GMK	734	Cablefix	667
SKINDICHT® JT PTFE metric	701		
SKINDICHT® JT PTFE PG	746		
SKINDICHT® KU, KUS, KUK	738		
SKINDICHT® KU-M	692		

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Perbunan® is a registered trademark of BAYER AG

	Characteristics															
	Protection class IP/NEMA	Connection thread metric	Connection thread PG	Connection thread NPT	for round cables	for flat cables	Metal	Plastic	Angle	Strain relief	Vibration protection	Antikink protection	Screen connection	Use for hazardous areas	Halogen free	Approvals
Cable glands																
SKINTOP® ST-M/STR-M/ST(R) M ISO	68/69K	●			●			●		●	●					cULus, cURus, TÜV, VDE, DNV
SKINTOP® CLICK/CLICK-R	68				●			●		●	●					VDE, cULus, cURus, DNV
SKINTOP® CLICK BS	68				●		●			●	●	●				VDE, cULus, cURus, DNV
SKINTOP® COLD/COLD-R	68	●			●		●			●	●					VDE
SKINTOP® CUBE	64				●			●		●	●					
SKINTOP® ST and STR	68		●		●			●		●	●					UL, UR, CSA, TÜV
SKINTOP® ST (NPT) and STR (NPT)	68			●	●			●		●	●					UL, UR, CSA
SKINTOP® ST-HF-M	68	●			●			●		●	●				●	VDE
SKINTOP® BS-M/BS M ISO	68	●			●			●		●	●	●				cULus, cURus, VDE, DNV
SKINTOP® BS	68		●		●			●		●	●	●				UL, UR, CSA
SKINTOP® BS (NPT)	68			●	●					●	●	●				
SKINTOP® BT and BT-M	68	●	●		●			●		●	●	●				
SKINTOP® MS-M and MSR-M/MS-M-XL and MSR-M-XL	68/69K NEMA 4/ NEMA 6x	●			●		●			●						cULus, cURus, VDE, DNV
SKINTOP® MS and MSR	68		●		●		●			●						
SKINTOP® MS (NPT) and MSR (NPT)	68			●	●		●			●						UL, UR, CSA
SKINTOP® MS-IS-M	68	●			●		●			●						
SKINTOP® MS-SC-M	68	●			●		●			●			●			cULus, cURus, DNV
SKINTOP® MS-M BRUSH/BRUSH plus	68/69K	●			●		●			●			●			VDE, cULus, DNV
SKINTOP® MS-SC	68		●		●		●			●			●			
SKINTOP® K-M ATEX plus/plus blue	68	●			●			●		●	●			●		DNV, ATEX
SKINTOP® KR-M ATEX plus/plus blue	68	●			●			●		●	●			●		DNV, ATEX
SKINTOP® MS-M ATEX/MS-M-XL ATEX	68	●			●		●			●				●		cULus, cURus, DNV, ATEX
SKINTOP® MSR-M ATEX	68	●			●		●			●				●		cULus, cURus, DNV, ATEX
SKINTOP® MS-M BRUSH ATEX/SKINDICHT® SHVE-M ATEX	68	●			●		●			●			●	●		ATEX, DNV
SKINDICHT® MINI	68	●			●		●									
SKINDICHT® CN and CN-M	68	●	●		●		●									
SKINDICHT® SHV-M	68	●			●		●									
SKINDICHT® SHV	68		●		●		●									
SKINDICHT® SHV-M-Viton®	68	●			●		●									
SKINDICHT® SHV-Viton®	68		●		●		●									
SKINDICHT® SHVE-M	68	●			●		●						●			
SKINDICHT® SHVE	68		●		●		●						●			
SKINDICHT® SR-SV-M	65	●			●		●			●		●				
SKINDICHT® SR-SV	65		●		●		●			●		●				
SKINDICHT® FL	65					●	●									
SKINDICHT® SRE-M	65	●			●		●			●		●	●			
SKINDICHT® SRE	65		●		●		●			●		●	●			
SKINDICHT® SR-M	65	●			●		●			●		●				
SKINDICHT® SR	65		●		●		●			●		●				
SKINDICHT® KW-M	55	●			●			●	●							
SKINDICHT® SE and SE-M	55	●	●		●		●		●							
SKINDICHT® SE-M 220/320	55	●	●		●		●		●							
SKINDICHT® RWV-M	55	●			●		●		●							
SKINDICHT® RWV	55		●		●		●		●							
SKINDICHT® SKZ-M	55	●			●		●			●						
SKINDICHT® SKZ	55		●		●		●			●						
SKINDICHT® SHZ-M	55	●			●		●			●						
SKINDICHT® SHZ	55		●		●		●			●						
SKINDICHT® SVF and SVF-M	54	●	●			●	●									
SKINDICHT® SVFK	54		●			●		●								
SKINDICHT® SVRE-M	54	●			●		●									
SKINDICHT® SVRE	54		●		●		●									
SKINDICHT® SVRN-M	54	●			●		●									
SKINDICHT® SVRN	54		●		●		●									
SKINDICHT® SVRX-W	54	●			●		●									
SKINDICHT® SVRX-Z	54	●			●		●						●			
SKINDICHT® SK	20		●		●		●			●						
SKINDICHT® SH	20		●		●		●			●						

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Getting the link to the future – now!

At the turn of the Millennium, the old, familiar PG thread was replaced by the metric thread. On 31 December 1999, the DIN 46320 standard for PG thread connections was withdrawn.

It was replaced by the European Standard EN 50262 for metric threads – means that with the year 2000, only cable glands with metric connection threads have to be used.

The changeover affects not only cable glands, but also all housing systems and appliances into which cables must be inserted.

Sizes PG 7 to PG 48 were replaced by metric sizes M 12 to M 63. Additional sizes have been adopted into the European Standard, covering a range M 6 to M 110.

The ZVEI (Zentralverband Elektrotechnik und Elektroindustrie e. V. – the German Federation of Electrotechnical and Electrical Industries) draws attention to the fact that the European safety standard EN 50262 must be applied as from March 2001 at the latest; furthermore, the present test standard VDE 0619 for glands with PG thread will be withdrawn in March 2001.

EN 50262 is a safety standard, and no longer a construction standard with the function of defining dimensions, like DIN 46319 or DIN 46320. This means that the functions required by a cable gland can be realised without restrictions applied by prescribed forms.

With our cable glands SKINTOP® and SKINDICHT®, we have transposed the

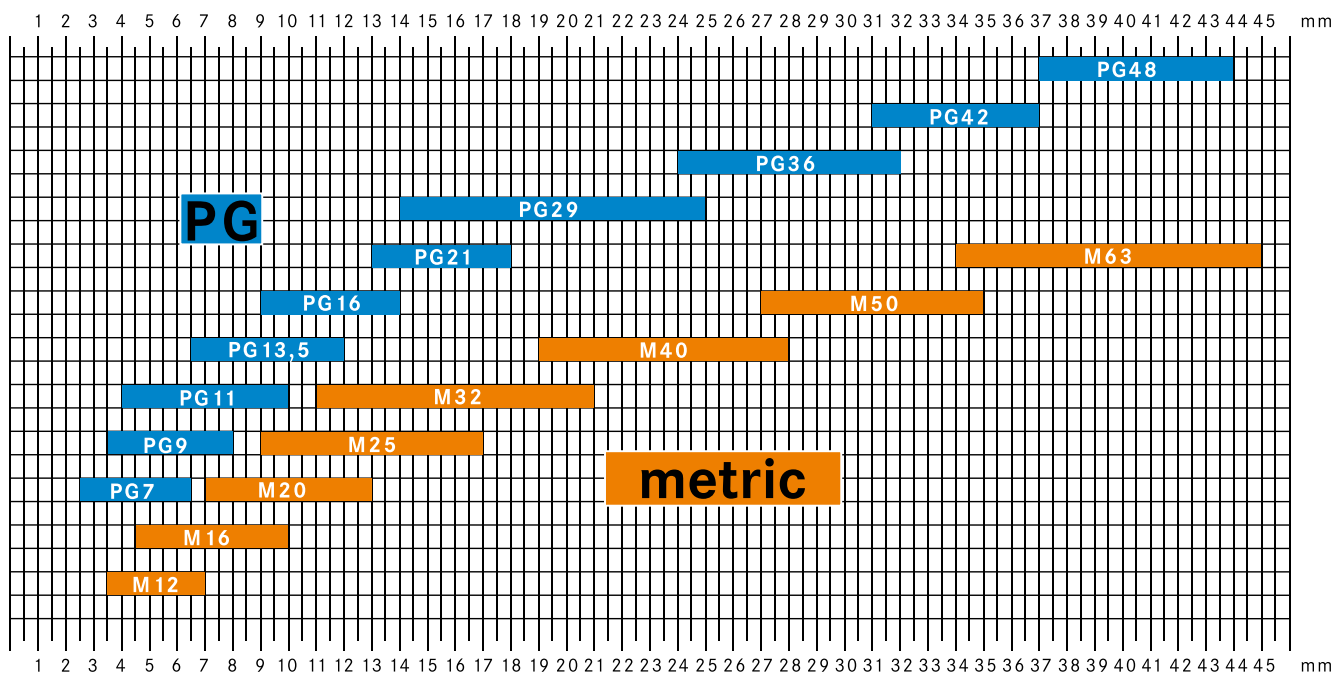
requirements of EN 50262. Our metric SKINTOP® glands combine all the features of the proven SKINTOP® series: easy, fast, permanent installation, optimal strain relief, protection against vibration, variable clamping range and sealing according to Protection Class IP 68.

Naturally, we can also supply you with the corresponding supplementary components, such as:

- SKINTOP® GMP-GL-M counter nuts
 - SKINDICHT® SM-M counter nuts
 - SKINTOP® SD-M dust seal
 - SKINTOP® DV-M sealing plugs
 - plugs made of metal or plastic material;
 - O-rings
 - adapters
- and many more.

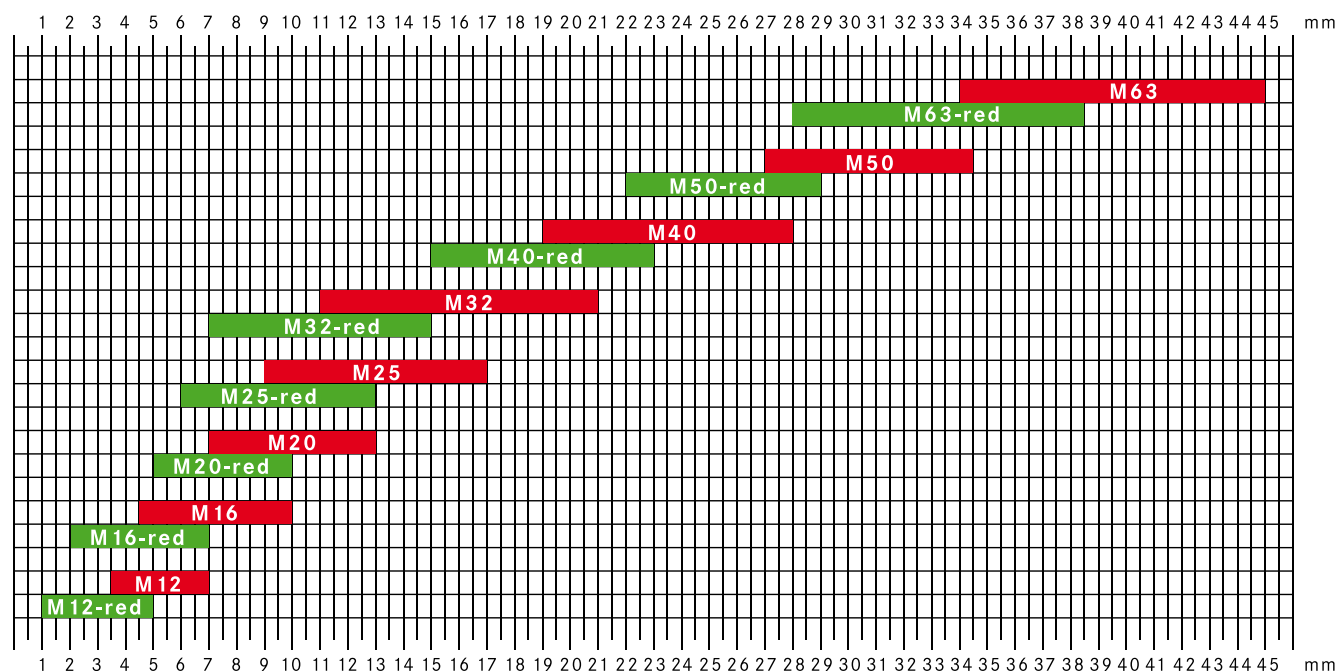
Table of clamping ranges PG/metric

SKINTOP® ST and SKINTOP® ST-M



Clamping ranges SKINTOP® metric

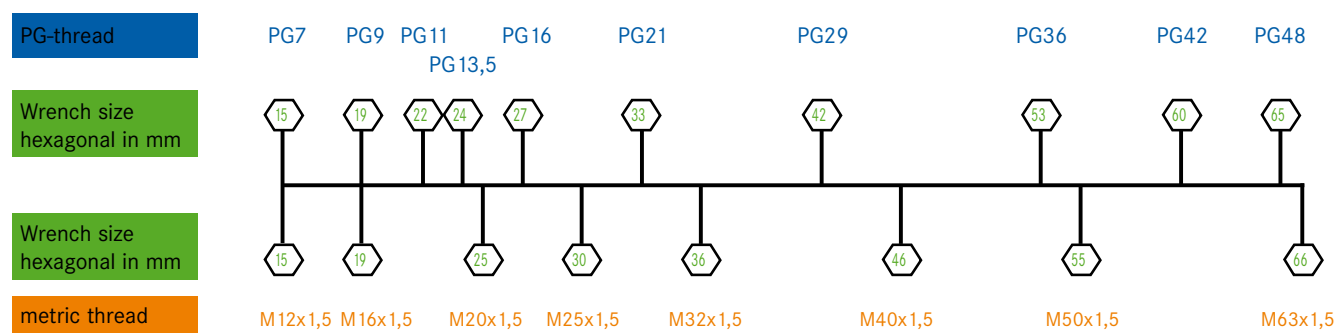
SKINTOP® ST-M and **SKINTOP® STR-M**



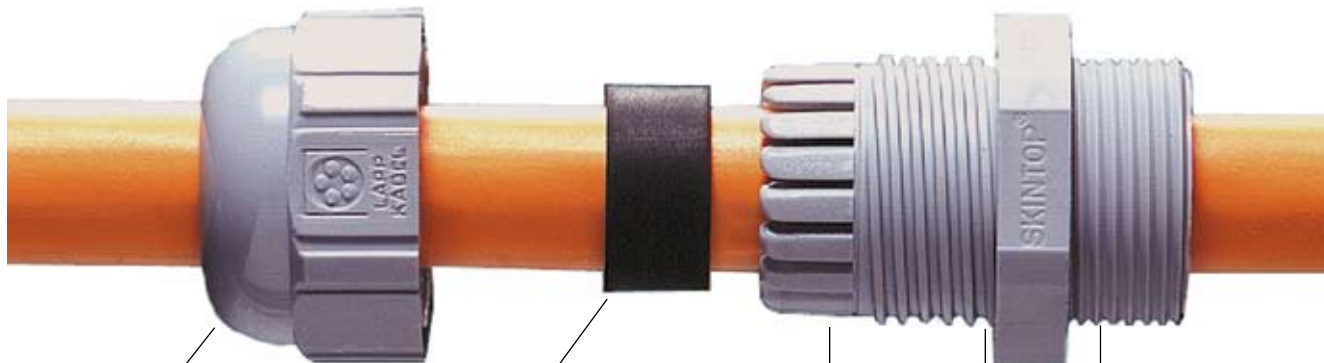
SKINTOP® ST / SKINTOP® ST-M

Comparison and classification

of cable glands spanner size PG/metric



Secured by a single turn of the hand



Cap nut with ergonomically designed gripping grooves. The gripping surfaces are generously dimensioned for spanners. Integral locking feature for vibration-resistant assembly.

Neoprene® sealing for a hermetic seal (IP 68 -5 bar/IP 69 K). Every SKINTOP® version is available with reducing seal insert for smaller cable diameters.

Lamellar design for optimum strain relief and protection of the cable. Widely variable clamping range, therefore only a few gland sizes are necessary.

Integral sealing ridges for a watertight junction with the housing.

Multiple trapezoidal thread for secure and instant assembly.

Shown here are the carefully matched components of the SKINTOP® cable glands. It is precisely these parts which guarantee optimum reliability.

■ Even more

With SKINTOP® you can fix the cable in an instant. Just feed it in, turn till tight - ready. So your cable is fixed, centered, hermetically sealed and completely strainrelieved with a turn of the hand. If you do not wish to use your hands, you can of course work with a spanner. Either way, with SKINTOP® you can achieve maximum reliability. To ensure that this remains so, SKINTOP® quality is continuously monitored. A quality which has brought us a great many international approvals.

■ Resistance properties



Thermal SKINTOP® ST-M

static: -40°C up to +100°C
dynamic: -20°C up to +100°C

Chemical

- Alcohols
- Aromatic hydrocarbons
- Ethers
- Benzene
- Chlorinated hydrocarbons
- Esters
- Grease, animal-vegetable
- Fluorinated hydrocarbons
- Ketones
- Motor fuels

- = resistant
- = limited resistance
- = non-resistant

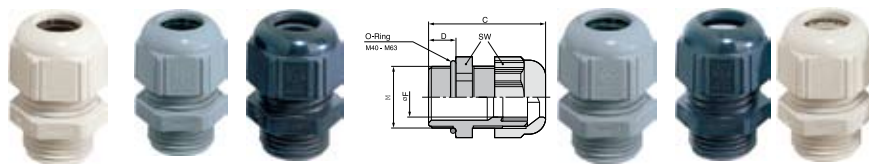
For other aggressive media we recommend a test in our laboratory.

SKINTOP® ST-M / SKINTOP® STR-M



Info

- Now with IP 69 K approval! Proven functionality also during hardest cleaning procedures at industrial machinery with high-pressure cleaners and hot water!



SKINTOP® ST-M

SKINTOP® STR-M

Benefits

SKINTOP® ST-M

- Increased oil resistant for maximum reliability
- Permanent vibration protection
- Large, variable clamping ranges
- Optimal strain relief
- Various accessories (e. g. multiple sealing inserts)

SKINTOP® STR-M

- Benefits see SKINTOP® ST-M

Application range

SKINTOP® ST-M

- Everywhere where cables must be safely inserted into housings.
- Machine and apparatus construction
- Photovoltaic
- Automation technology
- Mobile off shore units, equipment and ship yards

SKINTOP® STR-M

- With reducing seal insert, to seal cables with smaller outer diameters.

Approvals (Norm references)



Design

- Metric connection thread acc. to EN 50262

Note

SKINTOP® ST-M

- For suitable accessories see SKINTOP® metric accessories
- Counter nut to be used SKINTOP® GMP-GL-M
- SKINTOP® ST M ISO types have a extralong connection thread
- Versions SKINTOP® ST M ISO with extra long connection thread, see table, have no DNV approval

SKINTOP® STR-M

- For suitable accessories see SKINTOP® metric accessories
- Counter nut to be used SKINTOP® GMP-GL-M
- SKINTOP® STR M ISO types have a extralong connection thread
- Versions SKINTOP® STR M ISO with extra long connection thread, see table, have no DNV approval

Suitable cables

- For IP 69 K applications we recommend to use the following cables:
ÖLFLEX® ROBUST 200
H07RN8-F

Suitable tools

SKINTOP® ST-M

- SKINMATIC® QUICK Set 1 see page 703
- SKINMATIC® RZ see page 704

Technical data

- Caution**
Installation dimensions and tightening torques see Appendix T21
- Colour delivered**
RAL 7001 silver-grey
RAL 7035 light grey
RAL 9005 black / UV resistant
- Material**
Body: Polyamide
Seal: CR
- Tests**
GGVS: TÜ.EGG.020-95
- Degree of protection**
IP 68 - 5 bar
IP 69 K
- Range of temperature**
Static: -40°C up to +100°C
Dynamic: -20°C up to +100°C

Part number	Part designation / size	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINTOP® ST-M silver grey						
53111000	ST-M 12 x 1,5	3,5-7	15	30,0	8,0	100
53111010	ST-M 16 x 1,5	4,5-10	19	34,0	8,0	100
53111020	ST-M 20 x 1,5	7-13	25	37,0	9,0	100
53111030	ST-M 25 x 1,5	9-17	30	40,0	10,0	50
53111040	ST-M 32 x 1,5	11-21	36	47,0	10,0	25
53111050	ST-M 40 x 1,5	19-28	46	52,0	10,0	10
53111060	ST-M 50 x 1,5	27-35	55	62,0	12,0	5
53111070	ST-M 63 x 1,5	34-45	66	71,0	12,0	5
SKINTOP® ST-M black						
53111200	ST-M 12 x 1,5	3,5-7	15	30,0	8,0	100
53111210	ST-M 16 x 1,5	4,5-10	19	34,0	8,0	100
53111220	ST-M 20 x 1,5	7-13	25	37,0	9,0	100
53111230	ST-M 25 x 1,5	9-17	30	40,0	10,0	50
53111240	ST-M 32 x 1,5	11-21	36	47,0	10,0	25
53111250	ST-M 40 x 1,5	19-28	46	52,0	10,0	10
53111260	ST-M 50 x 1,5	27-35	55	62,0	12,0	5
53111270	ST-M 63 x 1,5	34-45	66	71,0	12,0	5
SKINTOP® ST-M light grey						
53111400	ST-M 12 x 1,5	3,5-7	15	30,0	8,0	100
53111410	ST-M 16 x 1,5	4,5-10	19	34,0	8,0	100
53111420	ST-M 20 x 1,5	7-13	25	37,0	9,0	100
53111430	ST-M 25 x 1,5	9-17	30	40,0	10,0	50
53111440	ST-M 32 x 1,5	11-21	36	47,0	10,0	25
53111450	ST-M 40 x 1,5	19-28	46	52,0	10,0	10
53111460	ST-M 50 x 1,5	27-35	55	62,0	12,0	5
53111470	ST-M 63 x 1,5	34-45	66	71,0	12,0	5
SKINTOP® ST M ISO silver-grey (with long metric connecting thread)						
53017010	ST M 16 x 1,5	3,5-8	19	40,0	12,0	100
53017030	ST M 20 x 1,5	5-12	24	45,0	13,0	100
53017040	ST M 25 x 1,5	9-14	27	47,0	13,0	50
SKINTOP® ST M ISO black (with long metric connecting thread)						
53017210	ST M 16 x 1,5	3,5-8	19	40,0	12,0	100
53017230	ST M 20 x 1,5	5-12	24	45,0	13,0	100
53017240	ST M 25 x 1,5	9-14	27	47,0	13,0	50

Part number	Part designation / size	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINTOP® STR-M silver grey						
53111100	STR-M 12 x 1,5	1-5	15	30.0	8.0	100
53111110	STR-M 16 x 1,5	2-7	19	34.0	8.0	100
53111120	STR-M 20 x 1,5	5-10	25	37.0	9.0	100
53111130	STR-M 25 x 1,5	6-13	30	40.0	10.0	50
53111140	STR-M 32 x 1,5	7-15	36	47.0	10.0	25
53111150	STR-M 40 x 1,5	15-23	46	52.0	10.0	10
53111160	STR-M 50 x 1,5	22-29	55	62.0	12.0	5
53111170	STR-M 63 x 1,5	28-39	66	71.0	12.0	5
SKINTOP® STR-M black						
53111300	STR-M 12 x 1,5	1-5	15	30.0	8.0	100
53111310	STR-M 16 x 1,5	2-7	19	34.0	8.0	100
53111320	STR-M 20 x 1,5	5-10	25	37.0	9.0	100
53111330	STR-M 25 x 1,5	6-13	30	40.0	10.0	50
53111340	STR-M 32 x 1,5	7-15	36	47.0	10.0	25
53111350	STR-M 40 x 1,5	15-23	46	52.0	10.0	10
53111360	STR-M 50 x 1,5	22-29	55	62.0	12.0	5
53111370	STR-M 63 x 1,5	28-39	66	71.0	12.0	5
SKINTOP® STR-M light grey						
53111500	STR-M 12 x 1,5	1-5	15	30.0	8.0	100
53111510	STR-M 16 x 1,5	2-7	19	34.0	8.0	100
53111520	STR-M 20 x 1,5	5-10	25	37.0	9.0	100
53111530	STR-M 25 x 1,5	6-13	30	40.0	10.0	50
53111540	STR-M 32 x 1,5	7-15	36	47.0	10.0	25
53111550	STR-M 40 x 1,5	15-23	46	52.0	10.0	10
53111560	STR-M 50 x 1,5	22-29	55	62.0	12.0	5
53111570	STR-M 63 x 1,5	28-39	66	71.0	12.0	5
SKINTOP® STR M ISO silver-grey (with long metric connecting thread)						
53017110	STR M 16 x 1,5	2-6	19	40.0	12.0	100
53017130	STR M 20 x 1,5	4-9	24	45.0	13.0	100
53017140	STR M 25 x 1,5	6-12	27	47.0	13.0	50
SKINTOP® STR M ISO black (with long metric connecting thread)						
53017310	STR M 16 x 1,5	2-6	19	40.0	12.0	100
53017330	STR M 20 x 1,5	4-9	24	45.0	13.0	100
53017340	STR M 25 x 1,5	6-12	27	47.0	13.0	50

■ Accessories

SKINTOP® ST-M

- SKINTOP® DIX-M see page 662
- SKINTOP® GMP-GL-M see page 660
- SKINTOP® DIX-M AUTOMATION see page 663
- SKINTOP® SDV-M ATEX see page 664
- SKINTOP® SD-M see page 665
- SKINTOP® DV-M see page 665

SKINTOP® STR-M

- SKINTOP® GMP-GL-M see page 660
- SKINTOP® SDVR-M ATEX see page 664
- SKINTOP® SD-M see page 665

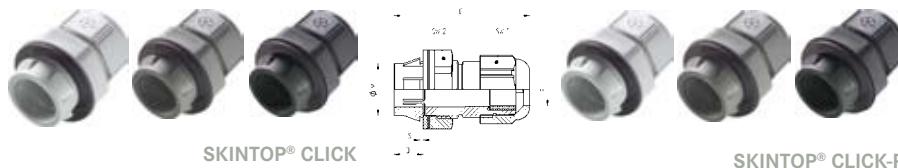
New

SKINTOP® CLICK / SKINTOP® CLICK-R



Info

- The most innovative cable insertion system on the market for very fast, highly flexible assembly. Simply click in - turn to left - turn to right - finished. Result: fixed, centred, strain relieved and maximum protection class in seconds.



Benefits

SKINTOP® CLICK

- Fewer parts, counter nut no longer needed
- Up to 70% time saving due to innovative CLICK system
- Simple, free assembly in any position
- Vibration protection
- No thread required

SKINTOP® CLICK-R

- Benefits see SKINTOP® CLICK

Application range

SKINTOP® CLICK

- Automation technology
- Solar applications
- Switch cabinet building
- Measurement, control and electrical applications
- Air conditioning technology

SKINTOP® CLICK-R

- With reducing seal insert, to seal cables with smaller outer diameters.

Approvals (Norm references)



Scope of delivery

- Disassembly tool contained in the delivery scope

Technical data

RAL	Colour delivered RAL 7001 silver-grey RAL 7035 light grey RAL 9005 black / UV resistant
Material	Body: special polyamide Seal: special elastomer
IP	Degree of protection SKINTOP® CLICK IP 68 - 4 bar (M12) IP 68 - 5 bar (M16 - M32)
Temperature	Range of temperature -20 °C up to +100 °C

Part number	Part designation / size	Clamping range ØF mm	M (hole mm)	SW1 / SW2 mm	Overall length C mm	Thread length D mm	S (wall thickness mm)	Pieces / PU
SKINTOP® CLICK light grey								
53112692	CLICK 12	3.5 - 7	12,3 (+0,2)	15 / 18	40,0	8,0	1,0 - 4,0	50
53112686	CLICK 16	5 - 9	16,3 (+0,2)	19 / 22	42,0	8,0	1,0 - 4,0	50
53112687	CLICK 20	7 - 13	20,3 (+0,2)	25 / 27	45,5	8,0	1,0 - 4,0	25
53112688	CLICK 25	9 - 17	25,3 (+0,2)	30 / 34	48,5	8,0	1,0 - 4,0	25
53112694	CLICK 32	11 - 21	32,3 (+0,2)	36 / 40	55,0	8,0	1,0 - 4,0	25
SKINTOP® CLICK silver grey								
53112921	CLICK 12	3.5 - 7	12,3 (+0,2)	15 / 18	40,0	8,0	1,0 - 4,0	50
53112876	CLICK 16	5 - 9	16,3 (+0,2)	19 / 22	42,0	8,0	1,0 - 4,0	50
53112877	CLICK 20	7 - 13	20,3 (+0,2)	25 / 27	45,5	8,0	1,0 - 4,0	25
53112878	CLICK 25	9 - 17	25,3 (+0,2)	30 / 34	48,5	8,0	1,0 - 4,0	25
53112922	CLICK 32	11 - 21	32,3 (+0,2)	36 / 40	55,0	8,0	1,0 - 4,0	25
SKINTOP® CLICK black								
53112923	CLICK 12	3.5 - 7	12,3 (+0,2)	15 / 18	40,0	8,0	1,0 - 4,0	50
53112882	CLICK 16	5 - 9	16,3 (+0,2)	19 / 22	42,0	8,0	1,0 - 4,0	50
53112883	CLICK 20	7 - 13	20,3 (+0,2)	25 / 27	45,5	8,0	1,0 - 4,0	25
53112884	CLICK 25	9 - 17	25,3 (+0,2)	30 / 34	48,5	8,0	1,0 - 4,0	25
53112924	CLICK 32	11 - 21	32,3 (+0,2)	36 / 40	55,0	8,0	1,0 - 4,0	25
SKINTOP® CLICK-R light grey								
53112925	CLICK-R 12	1 - 5	12,3 (+0,2)	15 / 18	40,0	8,0	1,0 - 4,0	50
53112689	CLICK-R 16	4 - 7	16,3 (+0,2)	19 / 22	42,0	8,0	1,0 - 4,0	50
53112690	CLICK-R 20	5 - 10	20,3 (+0,2)	25 / 27	45,5	8,0	1,0 - 4,0	25
53112691	CLICK-R 25	6 - 13	25,3 (+0,2)	30 / 34	48,5	8,0	1,0 - 4,0	25
53112926	CLICK-R 32	7 - 15	32,3 (+0,2)	36 / 40	55,0	8,0	1,0 - 4,0	25
SKINTOP® CLICK-R silver grey								
53112927	CLICK-R 12	1 - 5	12,3 (+0,2)	15 / 18	40,0	8,0	1,0 - 4,0	50
53112879	CLICK-R 16	4 - 7	16,3 (+0,2)	19 / 22	42,0	8,0	1,0 - 4,0	50
53112880	CLICK-R 20	5 - 10	20,3 (+0,2)	25 / 27	45,5	8,0	1,0 - 4,0	25
53112881	CLICK-R 25	6 - 13	25,3 (+0,2)	30 / 34	48,5	8,0	1,0 - 4,0	25
53112928	CLICK-R 32	7 - 15	32,3 (+0,2)	36 / 40	55,0	8,0	1,0 - 4,0	25
SKINTOP® CLICK-R black								
53112929	CLICK-R 12	1 - 5	12,3 (+0,2)	15 / 18	40,0	8,0	1,0 - 4,0	50
53112885	CLICK-R 16	4 - 7	16,3 (+0,2)	19 / 22	42,0	8,0	1,0 - 4,0	50
53112886	CLICK-R 20	5 - 10	20,3 (+0,2)	25 / 27	45,5	8,0	1,0 - 4,0	25
53112887	CLICK-R 25	6 - 13	25,3 (+0,2)	30 / 34	48,5	8,0	1,0 - 4,0	25
53112931	CLICK-R 32	7 - 15	32,3 (+0,2)	36 / 40	55,0	8,0	1,0 - 4,0	25

Accessories

SKINTOP® CLICK

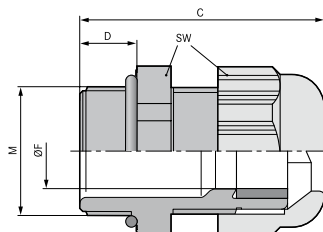
- SKINTOP® DIX-M see page 662
- SKINTOP® DIX-M AUTOMATION see page 663
- SKINTOP® SDV-M ATEX see page 664
- SKINTOP® SD-M see page 665
- SKINTOP® DV-M see page 665

SKINTOP® CLICK-R

- SKINTOP® SDVR-M ATEX see page 664

SKINTOP® ST-HF-M

SKINTOP® halogen-free



SKINTOP® ST-HF-M

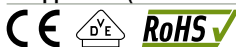
■ Benefits

- Maximum reliability
- Extremely flame retardant according to UL 94 V0
- Completely halogen-free (inclusive seal material)
- Self extinguishing, no dripping
- Permanent vibration protection

■ Application range

- Where personal and property protection is a priority.
- Public buildings
- Ventilation systems
- Tunnel construction
- Underground railways and trains

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Technical data



Caution

Installation dimensions and tightening torques see Appendix T21



Colour delivered

RAL 7035 light grey



Material

Polyamide UL94 V0 - halogen-free

Seal: LSE 1 - halogen-free

O-ring: LSE 1 - halogen-free

Tests

Filament wire test

EN 60695-2-1/1

+960°C



Degree of protection

IP 68 - 5 bar



Range of temperature

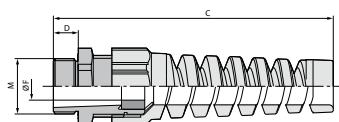
-20°C up to +100°C

Part number	Part designation / size	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINTOP® ST-HF-M						
53111407	ST-HF-M 12 x 1,5	4-5,5	15	30,0	8,0	100
53111417	ST-HF-M 16 x 1,5	4,5-9	19	34,0	8,0	100
53111427	ST-HF-M 20 x 1,5	7-13	25	37,0	9,0	100
53111437	ST-HF-M 25 x 1,5	9-17	30	40,0	10,0	50
53111447	ST-HF-M 32 x 1,5	11-21	36	47,0	10,0	25
53111457	ST-HF-M 40 x 1,5	19-28	46	52,0	10,0	10
53111467	ST-HF-M 50 x 1,5	27-35	55	62,0	12,0	5
53111477	ST-HF-M 63 x 1,5	34-45	66	71,0	12,0	5

■ Accessories

- SKINTOP® GMP-HF-M see page 661

SKINTOP® BS-M



SKINTOP® BS-M

■ Benefits

- Reliable bending and antikink protection
- Conservation
- Functional reliability
- To protect flexible cables

■ Application range

- Cables for electrical appliances and machinery, which are moved under normal use, must be protected against excessive bending, as required in accordance with VDE 0730.
- Hand-held equipment
- Robotics industry
- Light and sound applications
- Flexing machine parts

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Note

- For suitable accessories see SKINTOP® metric accessories
- Counter nut to be used SKINTOP® GMP-GL-M
- Version with reducing insert to seal smaller cable cross-sections SKINTOP® BSR-M on request
- Versions SKINTOP® BS M ISO with extra long connection thread, see table, have no DNV approval

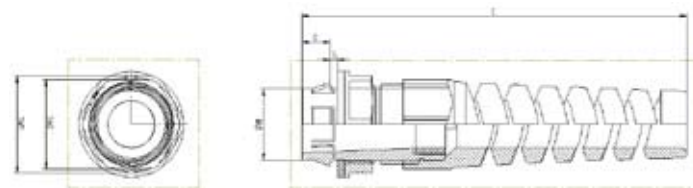
■ Technical data

	Caution Installation dimensions and tightening torques see Appendix T21
	On request With reducing sealing ring
	Colour delivered RAL 7001 silver-grey RAL 7035 light grey RAL 9005 black / UV resistant
	Material Body: Polyamide Seal: CR
	Degree of protection IP 68 - 5 bar IP 69 K pending
	Range of temperature -20°C up to +100°C

Part number	Part designation / size	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINTOP® BS-M silver grey						
53111600	BS-M 12x1,5	3,5-7	15	64.0	8.0	100
53111610	BS-M 16x1,5	4,5-10	19	86.0	8.0	100
53111620	BS-M 20x1,5	7-13	25	101.0	8.0	50
53111630	BS-M 25x1,5	9-17	30	125.0	9.0	25
53111640	BS-M 32x1,5	11-21	36	149.0	10.0	25
SKINTOP® BS-M black						
53111700	BS-M 12x1,5	3,5-7	15	64.0	8.0	100
53111710	BS-M 16x1,5	4,5-10	19	86.0	8.0	100
53111720	BS-M 20x1,5	7-13	25	101.0	8.0	50
53111730	BS-M 25x1,5	9-17	30	125.0	9.0	25
53111740	BS-M 32x1,5	11-21	36	149.0	10.0	25
SKINTOP® BS-M light grey						
53111800	BS-M 12x1,5	3,5-7	15	64.0	8.0	100
53111810	BS-M 16x1,5	4,5-10	19	86.0	8.0	100
53111820	BS-M 20x1,5	7-13	25	101.0	8.0	50
53111830	BS-M 25x1,5	9-17	30	125.0	9.0	25
53111840	BS-M 32x1,5	11-21	36	149.0	10.0	25
SKINTOP® BS M ISO silver-grey (with long metric connecting thread)						
53017610	BS M 16 x 1,5 PG 9	3,5-8	19	77.5	12.0	100
53017630	BS M 20 x 1,5 PG 13,5	5-12	24	102.0	13.0	50
53017640	BS M 25 x 1,5 PG 16	9-14	27	114.5	13.0	50
SKINTOP® BS M ISO black (with long metric connecting thread)						
53017810	BS M 16 x 1,5 PG 9	3,5-8	19	77.5	12.0	100
53017830	BS M 20 x 1,5 PG 13,5	5-12	24	102.0	13.0	50
53017840	BS M 25 x 1,5 PG 16	9-14	27	114.5	13.0	50

New

SKINTOP® CLICK BS



SKINTOP® CLICK BS

■ Benefits

- Reliable bending protection for cable conservation and functional reliability
- Up to 70% time saving due to innovative CLICK system
- No thread required
- To protect flexible cables
- Fewer parts, counter nut no longer needed

■ Application range

- Cables for electrical appliances and machinery, which are moved under normal use, must be protected against excessive bending, as required in accordance with VDE 0730.
- Robotics industry
- Flexing machine parts
- Apparatus construction
- Light and sound applications

■ Approvals (Norm references)



■ Scope of delivery

- Disassembly tool contained in the delivery scope



Info

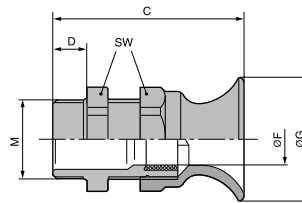
- The most innovative cable insertion system on the market for very fast, highly flexible assembly. Simply click in - turn to left - turn to right - finished. Result: fixed, centred, strain relieved and maximum protection class in seconds.

■ Technical data

RAL	Colour delivered
	RAL 7001 silver-grey
	RAL 7035 light grey
	RAL 9005 black / UV resistant
	Material
	Body: special polyamide
	Seal: special elastomer
IP	Degree of protection
	IP 68 - 4 bar (M12)
	IP 68 - 5 bar (M16 - M32)
	Range of temperature
	-20°C up to +100°C

Part number	Part designation / size	Clamping range ØF mm	M (hole mm)	SW1 / SW2 mm	Overall length C mm	Thread length D mm	S (wall thickness mm)	Pieces / PU
SKINTOP® CLICK BS light grey								
53112932	CLICK BS 12	3,5-7	12,3 (-0,2)	15 / 18	74,0	8,0	1,0 - 4,0	50
53112888	CLICK BS 16	5-9	16,3 (-0,2)	19 / 22	94,0	8,0	1,0 - 4,0	50
53112889	CLICK BS 20	7-13	20,3 (-0,2)	19 / 22	108,0	8,0	1,0 - 4,0	25
53112890	CLICK BS 25	9-17	25,3 (-0,2)	30 / 34	127,0	8,0	1,0 - 4,0	25
53112933	CLICK BS 32	11-21	32,3 (-0,2)	36 / 40	155,0	8,0	1,0 - 4,0	25
SKINTOP® CLICK BS silver grey								
53112934	CLICK BS 12	3,5-7	12,3 (-0,2)	15 / 18	74,0	8,0	1,0 - 4,0	50
53112906	CLICK BS 16	5-9	16,3 (-0,2)	19 / 22	94,0	8,0	1,0 - 4,0	50
53112907	CLICK BS 20	7-13	20,3 (-0,2)	19 / 22	108,0	8,0	1,0 - 4,0	25
53112908	CLICK BS 25	9-17	25,3 (-0,2)	30 / 34	127,0	8,0	1,0 - 4,0	25
53112935	CLICK BS 32	11-21	32,3 (-0,2)	36 / 40	155,0	8,0	1,0 - 4,0	25
SKINTOP® CLICK BS black								
53112936	CLICK BS 12	3,5-7	12,3 (-0,2)	15 / 18	74,0	8,0	1,0 - 4,0	50
53112909	CLICK BS 16	5-9	16,3 (-0,2)	19 / 22	94,0	8,0	1,0 - 4,0	50
53112911	CLICK BS 20	7-13	20,3 (-0,2)	19 / 22	108,0	8,0	1,0 - 4,0	25
53112912	CLICK BS 25	9-17	25,3 (-0,2)	30 / 34	127,0	8,0	1,0 - 4,0	25
53112937	CLICK BS 32	11-21	32,3 (-0,2)	36 / 40	155,0	8,0	1,0 - 4,0	25

SKINTOP® BT-M



SKINTOP® BT-M

■ Benefits

- Reliable bending and antikink protection
- Conservation
- Functional reliability
- To protect flexible cables

■ Application range

- Cables for electrical appliances and machinery, which are moved under normal use, must be protected against excessive bending, as required in accordance with VDE 0730.
- Hand-held equipment
- Apparatus construction
- Light and sound applications
- Flexing machine parts

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Note

- For suitable accessories see SKINTOP® accessories PG
- Counter nut to be used SKINTOP® GMP-GL-M

■ Technical data

	Caution Installation dimensions and tightening torques see Appendix T21
	Colour delivered RAL 7001 silver grey
	Material Body: Polyamide Seal: CR
	Degree of protection IP 68 - 5 bar
	Range of temperature -20°C up to +100°C

Part number	Part designation / size	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINTOP® BT-M						
53017420	16 x 1,5	3,5-8	19	45,0	12,0	100
53017430	20 x 1,5	5-12	24	54,0	13,0	50
53017440	25 x 1,5	9-14	27	57,0	13,0	50

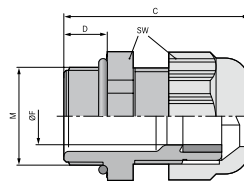
SKINTOP® K-M ATEX plus / SKINTOP® KR-M ATEX plus



SKINTOP® K-M ATEX plus



SKINTOP® KR-M ATEX plus



■ Benefits

SKINTOP® K-M ATEX plus

- High degree of protection
- Dynamic strain stability
- High strain relief
- Large, variable clamping ranges
- Permanent vibration protection

SKINTOP® KR-M ATEX plus

- Benefits see SKINTOP® K-M ATEX plus

■ Application range

SKINTOP® K-M ATEX plus

- Devices, machines of type of protection enhanced safety "e"
- Equipment group II / Category 2G+1D
- Mobile offshore and marine applications
- Chemical and petrochemical industry

SKINTOP® KR-M ATEX plus

- With reducing seal insert, to seal cables with smaller outer diameters.

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Technical data

**Caution**

Installation dimensions and tightening torques see instruction leaflet

**Approvals**

IBExU08ATEX 1063 X
Ex II 1D Ex tD A20 IP 6x
Ex II 2G Ex e II

**Colour delivered**

RAL 9005 black

**Material**

Body: special polyamide
Seal: special elastomer
O-ring: FKM

Tests

DIN EN 60079-0
DIN EN 60079-7

**Degree of protection**

IP 68 - 10 bar

**Range of temperature**

-20°C up to +80°C

Part number	Part designation / size	Clamping range ØF mm	Thread M	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINTOP® K-M ATEX plus							
54115200	K-M 12 ATEX plus	3-5,5	12 x 1,5	15	26,5 - 30,0	8,0	50
54115210	K-M 16 ATEX plus	7-9	16 x 1,5	19	29,0 - 34,0	8,0	50
54115220	K-M 20 ATEX plus	7-13	20 x 1,5	25	34,0 - 37,0	9,0	50
54115230	K-M 25 ATEX plus	11-17	25 x 1,5	30	35,0 - 40,0	10,0	25
54115240	K-M 32 ATEX plus	12-21	32 x 1,5	36	39,0 - 47,0	10,0	25
54115250	K-M 40 ATEX plus	19-28	40 x 1,5	46	43,0 - 52,0	10,0	10
54115260	K-M 50 ATEX plus	27-35	50 x 1,5	55	54,0 - 62,0	12,0	5
54115270	K-M 63 ATEX plus	36-45	63 x 1,5	66	59,0 - 71,0	12,0	5
SKINTOP® KR-M ATEX plus							
54115205	KR-M 12 ATEX plus	2-4	12 x 1,5	15	26,5 - 30,0	8,0	50
54115215	KR-M 16 ATEX plus	4-6	16 x 1,5	19	29,0 - 34,0	8,0	50
54115225	KR-M 20 ATEX plus	5-10	20 x 1,5	25	34,0 - 37,0	9,0	50
54115235	KR-M 25 ATEX plus	6-13	25 x 1,5	30	35,0 - 40,0	10,0	25
54115245	KR-M 32 ATEX plus	9-15	32 x 1,5	36	39,0 - 47,0	10,0	25
54115255	KR-M 40 ATEX plus	16-23	40 x 1,5	46	43,0 - 52,0	10,0	10
54115265	KR-M 50 ATEX plus	22-29	50 x 1,5	55	54,0 - 62,0	12,0	5
54115275	KR-M 63 ATEX plus	29-39	63 x 1,5	66	59,0 - 71,0	12,0	5

■ Accessories

SKINTOP® K-M ATEX plus

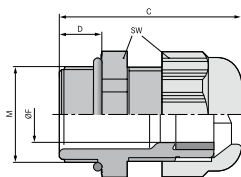
- SKINTOP® SDV-M ATEX see page 664

SKINTOP® KR-M ATEX plus

- SKINTOP® SDVR-M ATEX see page 664

New

SKINTOP® K-M ATEX plus blue / SKINTOP® KR-M ATEX plus blue



SKINTOP® K-M ATEX plus blue SKINTOP® KR-M ATEX plus blue

■ Benefits

SKINTOP® K-M ATEX plus blue

- High degree of protection
- Dynamic strain stability
- High strain relief
- Large, variable clamping ranges
- Permanent vibration protection

SKINTOP® KR-M ATEX plus blue

- Benefits see SKINTOP® K-M ATEX blue

■ Application range

SKINTOP® K-M ATEX plus blue

- Fail-safe circuits (class "I") as well as in housings and devices which required class "e" security.
- Equipment group II / Category 2G+1D
- Mobile offshore and marine applications
- Chemical and petrochemical industry

SKINTOP® KR-M ATEX plus blue

- With reducing seal insert, to seal cables with smaller outer diameters.

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Technical data

	Caution Installation dimensions and tightening torques see instruction leaflet
	Approvals IBExU08ATEX 1063 X Ex II 1D Ex tD A20 IP 6x Ex II 2G Ex e II
	Colour delivered RAL 5015 blue
	Material Body: special polyamide Seal: special elastomer O-ring: FKM
	Tests DIN EN 60079-0 DIN EN 60079-7
	Degree of protection IP 68 - 10 bar
	Range of temperature -20 °C up to +80 °C

Part number	Part designation / size	Clamping range ØF mm	Thread M	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINTOP® K-M ATEX plus blue							
54115400	K-M 12 ATEX plus blue	3-5,5	12 x 1,5	15	26.5 - 30.0	8.0	50
54115410	K-M 16 ATEX plus blue	7-9	16 x 1,5	19	29.0 - 34.0	8.0	50
54115420	K-M 20 ATEX plus blue	7-13	20 x 1,5	25	34.0 - 37.0	9.0	50
54115430	K-M 25 ATEX plus blue	11-17	25 x 1,5	30	35.0 - 40.0	10.0	25
54115440	K-M 32 ATEX plus blue	12-21	32 x 1,5	36	39.0 - 47.0	10.0	25
54115450	K-M 40 ATEX plus blue	19-28	40 x 1,5	46	43.0 - 52.0	10.0	10
54115460	K-M 50 ATEX plus blue	27-35	50 x 1,5	55	54.0 - 62.0	12.0	5
54115470	K-M 63 ATEX plus blue	36-45	63 x 1,5	66	59.0 - 71.0	12.0	5
SKINTOP® KR-M ATEX plus blue							
54115405	KR-M 12 ATEX plus blue	2-4	12 x 1,5	15	26.5 - 30.0	8.0	50
54115415	KR-M 16 ATEX plus blue	4-6	16 x 1,5	19	29.0 - 34.0	8.0	50
54115425	KR-M 20 ATEX plus blue	5-10	20 x 1,5	25	34.0 - 37.0	9.0	50
54115435	KR-M 25 ATEX plus blue	6-13	25 x 1,5	30	35.0 - 40.0	10.0	25
54115445	KR-M 32 ATEX plus blue	9-15	32 x 1,5	36	39.0 - 47.0	10.0	25
54115455	KR-M 40 ATEX plus blue	16-23	40 x 1,5	46	43.0 - 52.0	10.0	10
54115465	KR-M 50 ATEX plus blue	22-29	50 x 1,5	55	54.0 - 62.0	12.0	5
54115475	KR-M 63 ATEX plus blue	29-39	63 x 1,5	66	59.0 - 71.0	12.0	5

■ Accessories

SKINTOP® K-M ATEX plus blue

- SKINTOP® SDV-M ATEX see page 664

SKINTOP® KR-M ATEX plus blue

- SKINTOP® SDVR-M ATEX see page 664

New

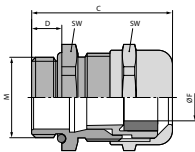
SKINTOP® MS-M / SKINTOP® MSR-M



SKINTOP® MS-M



SKINTOP® MSR-M



Info

- Sizes SKINTOP® MS-M 75x1,5 to 110x2 with innovative double lamella gasket for easier assembling of cables with large diameters.
- Now with IP 69 K approval! Proven functionality also during hardest cleaning procedures at industrial machinery with high-pressure cleaners and hot water!

■ Benefits

SKINTOP® MS-M

- Maximum reliability
- Optimal strain relief
- Large, variable clamping ranges
- For cable diameters up to 98 mm

SKINTOP® MSR-M

- Benefits see SKINTOP® MS-M

■ Application range

SKINTOP® MS-M

- In areas with high demands on special mechanical and chemical stability.
- Chemical industry
- Measurement and control technology
- Machine and apparatus construction
- Plant engineering

SKINTOP® MSR-M

- With reducing seal insert, to seal cables with smaller outer diameters.

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Note

- Counter nut to be used SKINDICHT® SM-M
- For suitable accessories see SKINTOP® metric accessories

■ Suitable cables

SKINTOP® MS-M

- For IP 69 K applications we recommend to use the following cables:
ÖLFLEX® ROBUST 200
H07RN8-F

■ Technical data



Caution

Installation dimensions and tightening torques see Appendix T21



Approvals

IP 69 K approval for size M75x1,5 pending UL, CSA, DNV, VDE, IP 69 K approval for size M90x2 to M110x2 pending



Material

Body: Nickel plated brass
Insert: Polyamide
Seal: CR
O-ring: NBR



Degree of protection

IP 68
IP 69 K



Range of temperature

-30°C up to +100°C

Part number	Part designation / size	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINTOP® MS-M						
53112000	12 x 1,5	3-7	16	26,5	6,5	100
53112010	16 x 1,5	4,5-10	20	32,0	7,0	100
53112020	20 x 1,5	7-13	24	35,5	8,0	50
53112030	25 x 1,5	9-17	29	37,5	8,0	25
53112040	32 x 1,5	11-21	36	42,2	9,0	25
53112050	40 x 1,5	19-28	45	49,5	9,0	10
53112060	50 x 1,5	27-35	54	52,0	10,0	5
53112070	63 x 1,5	34-45	67	61,3	15,0	5
53112080	63 x 1,5 plus	44-55	75	65,5	15,0	5
53112510	75 x 1,5	58-68	95	105,0	15,0	1
53112512	90 x 2	66-78	115	136,0	20,0	1
53112514	110 x 2	86-98	135	154,0	25,0	1
SKINTOP® MSR-M						
53112100	12 x 1,5	1-5	16	26,5	6,5	100
53112110	16 x 1,5	2-7	20	32,0	7,0	100
53112120	20 x 1,5	5-10	24	35,5	8,0	50
53112130	25 x 1,5	6-13	29	37,5	8,0	25
53112140	32 x 1,5	7-15	36	42,2	9,0	25
53112150	40 x 1,5	15-23	45	49,5	9,0	10
53112160	50 x 1,5	22-29	54	52,0	10,0	5
53112170	63 x 1,5	28-39	67	61,3	15,0	5
53112511	75 x 1,5	53-63	95	105,0	15,0	1
53112515	110 x 2	76-88	135	154,0	25,0	1

■ Accessories

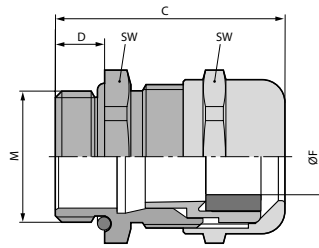
SKINTOP® MS-M

- SKINDICHT® SM-M see page 687
- SKINTOP® DIX-M see page 662
- SKINTOP® DIX-M AUTOMATION see page 663
- SKINTOP® SDV-M ATEX see page 664
- SKINTOP® SD-M see page 665
- SKINTOP® DV-M see page 665

SKINTOP® MSR-M

- SKINDICHT® SM-M see page 687
- SKINTOP® SDVR-M ATEX see page 664
- SKINTOP® SD-M see page 665

SKINTOP® MS-M-XL / SKINTOP® MSR-M-XL



SKINTOP® MS-M-XL



SKINTOP® MSR-M-XL

■ Benefits

SKINTOP® MS-M-XL

- Especially for thick walls
- Maximum reliability
- Optimal strain relief
- Large, variable clamping ranges

SKINTOP® MSR-M-XL

- Benefits see SKINTOP® MS-M-XL

■ Application range

SKINTOP® MS-M-XL

- With long connection thread for applications involving a thicker wall.

SKINTOP® MSR-M-XL

- With reducing seal insert, to seal cables with smaller outer diameters.

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Note

- Counter nut to be used SKINDICHT® SM-M
- For suitable accessories see SKINTOP® metric accessories

■ Technical data

- Caution**
Installation dimensions and tightening torques see Appendix T21
- Material**
Body: Nickel plated brass
Insert: Polyamide
Seal: CR
O-ring: NBR
- Degree of protection**
IP 68 - 10 bar
IP 69 K
- Range of temperature**
-30 °C up to +100 °C

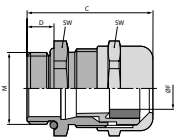
Part number	Part designation / size	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINTOP® MS-M-XL						
53112005	12 x 1,5	3-7	16	32.8	12.0	100
53112015	16 x 1,5	4,5-10	20	37.0	12.0	50
53112025	20 x 1,5	7-13	24	39.5	12.0	50
53112035	25 x 1,5	9-17	29	41.5	12.0	25
53112045	32 x 1,5	11-21	36	48.2	15.0	25
53112055	40 x 1,5	19-28	45	53.5	15.0	10
53112065	50 x 1,5	27-35	54	57.0	15.0	5
SKINTOP® MSR-M-XL						
53112105	12 x 1,5	1-5	16	32.8	12.0	100
53112115	16 x 1,5	2-7	20	37.0	12.0	50
53112125	20 x 1,5	5-10	24	39.5	12.0	50
53112135	25 x 1,5	6-13	29	41.5	12.0	25
53112145	32 x 1,5	7-15	36	48.2	15.0	25
53112155	40 x 1,5	15-23	45	53.5	15.0	10
53112165	50 x 1,5	22-29	54	57.0	15.0	5

New

SKINTOP® COLD / SKINTOP® COLD-R



SKINTOP® COLD



SKINTOP® COLD-R



Info

- For extreme negative temperatures

■ Benefits

SKINTOP® COLD

- Increased cold resistant
- Dynamic strain stability
- High mechanic stability
- Optimal strain relief
- Large, variable clamping ranges

SKINTOP® COLD-R

- Benefits see SKINTOP® COLD

■ Application range

SKINTOP® COLD

- In areas with high demand on special mechanical stability and cold resistance.
- Air conditioning technology
- Freezing plants, cold stores
- Off shore
- Plant engineering

SKINTOP® COLD-R

- With reducing seal insert, to seal cables with smaller outer diameters.

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Note

- Counter nut to be used SKINDICHT® SM-M
- For suitable accessories see SKINTOP® metric accessories

■ Technical data



Caution

Installation dimensions and tightening torques see Appendix T21



Material

Body: Nickel plated brass
Insert: Special Polyamide
Seal: Silicone
O-ring: Silicone



Degree of protection

IP 68 - 10 bar

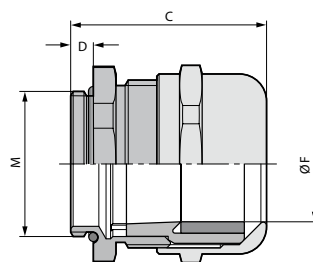


Range of temperature

-70°C up to +100°C

Part number	Part designation / size	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINTOP® COLD						
53113500	12 x 1,5	3-7	16	26.5	6.5	100
53113510	16 x 1,5	4,5-10	20	32.0	7.0	100
53113520	20 x 1,5	7-13	24	35.5	8.0	50
53113530	25 x 1,5	9-17	29	37.5	8.0	25
53113540	32 x 1,5	11-21	36	42.2	9.0	25
53113550	40 x 1,5	19-28	45	49.5	9.0	10
53113560	50 x 1,5	27-35	54	52.0	10.0	5
53113570	63 x 1,5	34-45	67	61.3	15.0	5
SKINTOP® COLD-R						
53113600	12 x 1,5	1-5	16	26.5	6.5	100
53113610	16 x 1,5	2-7	20	32.0	7.0	100
53113620	20 x 1,5	5-10	24	35.5	8.0	50
53113630	25 x 1,5	6-13	29	37.5	8.0	25
53113640	32 x 1,5	7-15	36	42.2	9.0	25
53113650	40 x 1,5	15-23	45	49.5	9.0	10
53113660	50 x 1,5	22-29	54	52.0	10.0	5
53113670	63 x 1,5	28-39	67	61.3	15.0	5

SKINTOP® MS-IS-M



Benefits

- Short connection thread for more space inside the industrial connectors
- Optimal strain relief
- Large, variable clamping ranges

Application range

- Specially designed for use on industrial connectors.

Approvals (Norm references)



Design

- Metric connection thread acc. to EN 50262

Note

- Suitable multiple seal inserts please see to SKINTOP® DIX PG 21 (25x1,5) and DIX PG 29 (32x1,5)

Technical data

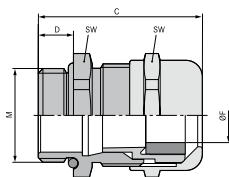
	Caution Installation dimensions and tightening torques see Appendix T21
	Material Body: Nickel plated brass Insert: Polyamide Seal: CR O-ring: NBR
	Degree of protection IP 68 - 5 bar
	Range of temperature -30°C up to +100°C

Part number	Part designation / size	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINTOP® MS-IS-M						
53112780	25 x 1,5	11-18	30	37.0	5.0	25
53112790	32 x 1,5	16-25	40	43.0	5.0	25

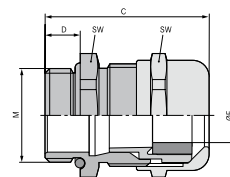
SKINTOP® MS-M ATEX / SKINTOP® MSR-M ATEX



SKINTOP® MS-M ATEX



SKINTOP® MSR-M ATEX



■ Benefits

SKINTOP® MS-M ATEX

- Dynamic strain stability
- High strain relief
- Large, variable clamping ranges
- Anti Static
- Maximum reliability

SKINTOP® MSR-M ATEX

- Benefits see SKINTOP® MS-M ATEX

■ Application range

SKINTOP® MS-M ATEX

- Devices, machines of type of protection enhanced safety "e"
- Equipment group II / Category 2G+1D
- Mobile offshore and marine applications
- Chemical and petrochemical industry

SKINTOP® MSR-M ATEX

- With reducing seal insert, to seal cables with smaller outer diameters.

■ Product features

SKINTOP® MS-M ATEX

- SKINTOP® MS-M-XL ATEX is similar to the SKINTOP® MS-M ATEX, but has an extended connection thread for thick walls

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Note

SKINTOP® MS-M ATEX

- For suitable accessories, see SKINTOP® SDV-M ATEX

SKINTOP® MSR-M ATEX

- For suitable accessories, see SKINTOP® SDVR-M ATEX

■ Technical data



Caution

Installation dimensions and tightening torques see instruction leaflet



Approvals

SKINTOP® MS-M ATEX

IBExU01ATEX1041 X

Ex II 2G Ex e II

Ex II 1D tD A20 IP6X



Material

Body: Nickel plated brass

Insert: Polyamide

Seal: CR

O-ring: NBR

Tests

DIN EN 60079-0

DIN EN 60079-7



Degree of protection

IP 68 - 10 bar



Range of temperature

-30°C up to +90°C

Part number	Part designation / size	Outer-Ø mm from - to	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINTOP® MS-M ATEX							
53112700	12 x 1,5	-	3 - 7	16	26.5	6.5	100
53112710	16 x 1,5	-	4.5 - 10	20	33.0	7.0	100
53112720	20 x 1,5	-	7 - 13	24	37.0	8.0	50
53112730	25 x 1,5	-	9 - 17	29	38.5	8.0	25
53112740	32 x 1,5	-	11 - 21	36	45.5	9.0	25
53112750	40 x 1,5	-	19 - 28	45	48.0	9.0	10
53112760	50 x 1,5	-	26 - 35	54	55.5	10.0	5
53112770	63 x 1,5	-	34 - 45	67	67.0	15.0	5
53112779	63 x 1,5 plus	-	44 - 55	75	65.5	15.0	1
SKINTOP® MS-XL-M ATEX							
53112800	12 x 1,5	-	3 - 7	16	32.8	12.0	100
53112810	16 x 1,5	-	4.5 - 10	20	37.0	12.0	100
53112820	20 x 1,5	-	7 - 13	24	39.5	12.0	50
53112830	25 x 1,5	-	9 - 17	29	41.5	12.0	25
53112840	32 x 1,5	-	11 - 21	36	48.2	15.0	25
53112850	40 x 1,5	-	19 - 28	45	53.5	15.0	10
53112860	50 x 1,5	-	26 - 35	54	57.5	15.0	5
SKINTOP® MSR-M ATEX							
53112705	12 x 1,5	-	2 - 5	16	26.5	6.5	100
53112715	16 x 1,5	-	4 - 7	20	33.0	7.0	100
53112725	20 x 1,5	-	5 - 10	24	37.0	8.0	50
53112735	25 x 1,5	-	6 - 13	29	38.5	8.0	25
53112745	32 x 1,5	-	7 - 15	36	45.5	9.0	25
53112755	40 x 1,5	-	16 - 23	45	48.0	9.0	10
53112765	50 x 1,5	-	19 - 29	54	55.5	10.0	5
53112775	63 x 1,5	-	32 - 39	67	67.0	15.0	5

■ Accessories

SKINTOP® MS-M ATEX

- SKINTOP® SDV-M ATEX see page 664

SKINTOP® MSR-M ATEX

- SKINTOP® SDVR-M ATEX see page 664

In industrial environments, motors, controls and automatic welding machines can seriously impair electromagnetic compatibility (EMC). Particular problems are caused in industrial installations by long cable runs for power supply or data transmission between individual components; appropriate preventive measures are therefore essential.

Due to the antenna radiation effect of such cables, radio interference can be picked up and the useful signal (for example, temperature sensor or shaft encoder) blanketed. Result: functional disturbances of the connected equipment – from undetected false readings to the breakdown of an entire production line. Conversely, cables can function as transmitters causing radio interference. Installation of electronic components in an earthed switch cabinet and the simultaneous use of screened cables has proved to be an effective countermeasure. In practice, however, the location of the cable duct frequently constitutes a weak point in the switch cabinet. Insufficient contact between the cable screening and the metal housing often destroys the desired screening effect. It is here that the SKINTOP® and SKINDICHT® cable glands from Lapp prove their worth. The newly developed SKINTOP® MS-SC-M and SKINTOP® MS-M BRUSH in particular are distinguished by their excellent EMC characteristics in addition to ease of handling. It enables the use of various different cable designs within a large diameter range.

Screening concepts

With the interference phenomena typically found in the industrial environment, we must distinguish principally between cable-linked and field-linked interference. Field-linked interference emissions which, for example, are radiated directly from a circuit board or, conversely, exercise an effect upon it, can be effectively checked by installing electrical or electronic assemblies in closed metal housings such as switch cabinets. If the housing does not have any particularly large apertures, a Faraday shield is produced which affords efficient protection against electromagnetic interferences. In practice, this type of screening is generally extremely expensive and is hardly practicable in the case of moving machine components. An alternative solution is provided by cables with screening braid. In this case, the quality of the screen effect depends to a great extent on the texture and thickness of the braiding. In addition, optimum attachment

of the the cable screening to the housing must be ensured by suitable mechanical elements in order to prevent penetration of the interference conducted on the cable screening. Of decisive importance is the derivation resistance, i.e. the resistance which a guide wave „sees“ upon the cable screening when it meets the point of intersection cable / housing.

Practical requirements

Thus, in terms of EMC, we have a series of practical requirements for optimum contact:

- The connection between the cable screening and the housing potential must be of low impedance. To ensure this, the contact surfaces must be as large as possible. Under ideal conditions the cable screening, together with the housing wall, constitute a closed connection and form a continuation of the housing, without permitting any openings to be formed.
- The connection must be of low induction. This means that the cable screening must be led to the housing wall via the shortest possible path and with the widest possible cross-section. Preferably a type of contact should be chosen which completely surrounds the internal conductor. The procedure frequently practised, namely first leading the cable into the housing and placing the screening somewhere inside the housing, whereby the screen braiding is often extended by means of a thin cable strand, makes effective screening almost impossible.
- For practical application, simplicity of handling and installation are desirable.

An electrician must be able to carry out installation without difficulty.

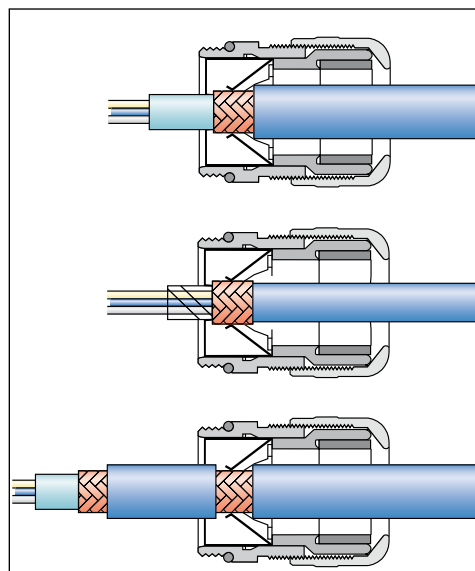
SKINTOP® and SKINDICHT®

The cable glands SKINTOP® and SKINDICHT® guarantee, in addition to perfect mechanical contact, the necessary low impedance and low induction connection. These glands, which are simple to install, are available in different versions and sizes. With SKINDICHT® SHVE-M, the cable screen is pressed between an earthing sleeve and a conical seal, thus permitting 360° contact over a wide area. In the case of SKINTOP® MS-SC-M, the contact is produced by means of cylindrically arranged contact springs, the SKINTOP® MS-M BRUSH offers a 360° contact with a EMC BRUSH. Only the cable sheathing in the area of the contact springs must be removed, and it is not necessary to open the screen braiding.

For the sake of clarity, this article focuses upon the cable gland SKINTOP® MS-SC-M. In a number of tests, excellent screening properties were demonstrated. Since the appropriate standard for cable glands does not define a particular set-up of test equipment, two possible measuring procedures and their evaluation are described below:

Derivation impedance,

derivation attenuation: as a characteristic quantity for evaluating the quality of a cable connection to the wall of the housing (reference potential), the derivation resistance R_A is documented via the frequency. This provides information as to what extent charges on the cable screening can be derived against the potential of the housing. To determine the screen



	Triaxial Method	Measurement of the derivation impedance
Application	Pairs of connectors and screened cables	Cable glands
Measurement	Screen attenuation mass from which the interaction impedance is calculated	Derivation impedance is determined directly
Reference to later application	Description of the screening efficiency: how effectively is the re-radiation of irradiation suppressed by field-linked interferences.	Description of how effectively interferences on the screening can be derived to an earthing mass (e.g. wall of switch cabinet)

attenuation factor of a cable, the derivation attenuation is calculated: the potential at the derivation resistance is related to the maximum available potential in a 50 W reference system. The derivation attenuation is obtained as follows:

$$aA \text{ (in dB)} = 20 \log (2RA / (2RA + 50 W)).$$

Triaxial Method: In the Triaxial Method, measurement is carried out in accordance with the German Defence Equipment Standard VG 95373 Pt 40 or 41. These set-ups, using a coaxial structure in a graduated tube (hence the term triaxial), are designed for a male / female socket pair, or employ a piece of cable of defined length for the purpose of qualifying a cable. The values of the screen attenuation mass aS and the coupling impedance ZK are determined for evaluation of the screening effect of the connectors depending upon their material characteristics and their construction, according to the formula: $AS = 20 \log(50 W / ZK)$.

A precondition for measurement according to these standards is a solid sheathing of the supply cable used (generally by means of a tube). However, this results in screen attenuation values of almost 100 dB; for practical applications on a switch cabinet wall, depending upon the conditions, these can be achieved only with difficulty or not at all.

Comparison of both methods:

In order to provide by means of the measured values a description of practical use of the a/m products, the measurement procedure of the derivation impedance and conversion into screen attenuation have been used (see Table)

Measurement Results

Measurements were made upon glands of type SKINTOP® MS-SC-M in various sizes with screened cables ÖLFLEX® CY in diameters of 6 – 22 mm, by both methods, in order to test and compare the validity

of the results for cable glands obtained by each method.

Measuring the derivation impedance:

In order to determine the derivation impedance, the cable glands were in each case connected to a piece of cable of approx. 10 cm length. At frequencies up to 10 MHz, all glands reveal a derivation impedance of $<1W$. This results in attenuation values of 30 – 50 dB (assuming a 50 W reference system). The amplitudes of high-frequency spurious components which are located in this frequency range are thus reduced at least by the factor 30, maximum by the factor 300. Only at frequencies above 3 – 4 MHz does the achievable attenuation sink to values <40 dB (factor 100). At higher frequencies (100 MHz), derivation impedance values in the range of 5 – 10 W are obtained. The measurement values confirm the assumed favourable EMC characteristics. Even up to high frequencies, low derivation impedance – or high derivation attenuation values can be obtained. Thus together with effective cable screening, optimum protection against cable-conducted interference signals can be achieved.

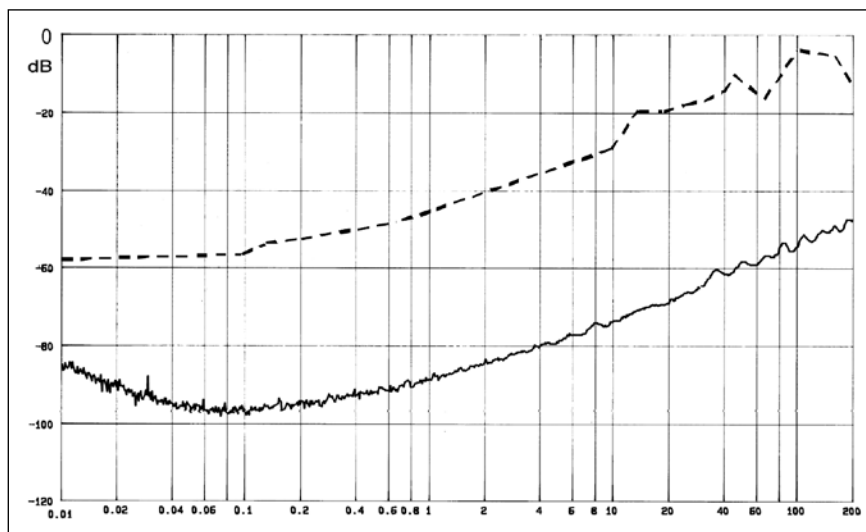
Triaxial measurement: Measurements

were performed as described above, in accordance with the German Defence Equipment Standard VG 95373, Procedure KS 01 B. The DC resistance of the glands equals 1 mW; this produces screening attenuation values which, depending upon the size and type of the gland, can amount to >100 dB.

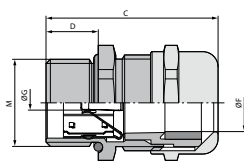
Comparison of results: The results reveal a clear difference between derivation attenuation and the screening attenuation in a system with identical components cable / gland. The curve for derivation attenuation is shifted upwards by approx. 40 dB almost parallel to the screening attenuation curve, i.e. shifted to lower attenuation values. Nevertheless, these values are more meaningful with regard to cable-conducted interference, because in reality, attenuation values of between 80 and 100 dB can hardly be achieved.

Conclusion

The different measurement methods give different values for the attenuation rate and, with these values, different characteristics are expressed. On the one hand, the value „screening attenuation” expresses how effectively the re-radiation or the irradiation is suppressed by field-linked interferences (Triaxial Method); the value „derivation attenuation”, on the other hand, expresses how effectively interferences on the screening can be derived to an earthing mass (measurement of derivation impedance). This means that attenuation values cannot be simply compared without reservation. It can however be assumed that values for „derivation attenuation” are more meaningful for glands, because the results of the Triaxial Method (screen attenuation) are dependent on the screening of the supply cable used.



SKINTOP® MS-SC-M



SKINTOP® MS-SC-M

Benefits

- Suitable for cables and wires with and without inner sheath
- Also suitable for continuing the cable screen to another connection
- Low resistance screen contact, optimal EMC protection
- High conductive, flexible EMC contact for clamping of various screen diameters
- Few operation steps, easy to assemble

Application range

- For EMC compliant earthing of the copper braiding and copper shaft sheath
- Automation technology
- Tele communication
- Measurement and control technology
- Plant engineering and construction

Approvals (Norm references)



Design

- Metric connection thread acc. to EN 50262

Note

- For painted, anodised or powdered-coated housings, you will require our EMC counter nut SKINDICHT® SM-PE-M for best contact
- For suitable accessories see SKINTOP® metric accessories
- As a variant for thick wall housings we recommend SKINTOP® MS-SC-M-XL with long connection thread in the sizes M16 to M50

Technical data



Caution

Installation dimensions and tightening torques see Appendix T21



Material

Body: Nickel plated brass
Insert: Polyamide
Seal: CR
O-ring: NBR



Degree of protection

IP 68 - 10 bar



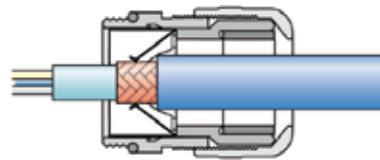
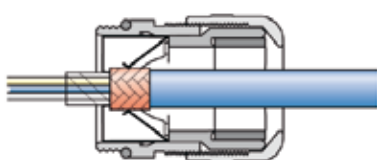
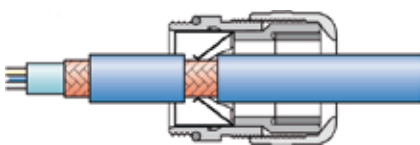
Range of temperature

-30 °C up to +100 °C

Part number	Part designation / size	Outer-Ø mm from - to	Minimum Ø above braiding in mm	SW mm	Thread length D mm	Pieces / PU
SKINTOP® MS-SC-M						
53112610	12 x 1,5	3,5-7,0	2,0	16	6,5	50
53112620	16 x 1,5	4,5-9,0	4,0	20	7,0	50
53112630	20 x 1,5	7,0-12,5	5,0	24	8,0	25
53112640	25 x 1,5	9,0-16,5	7,5	29	8,0	25
53112650	32 x 1,5	11,0-21,0	9,0	36	9,0	25
53112660	40 x 1,5	19,0-28,0	15,0	45	9,0	10
53112670	50 x 1,5	27,0-35,0	21,0	54	10,0	5
SKINTOP® MS-SC-M-XL						
53112625	16 x 1,5	4,5-9,0	4,0	20	12,0	50
53112635	20 x 1,5	7,0-12,5	5,0	24	12,0	25
53112645	25 x 1,5	9,0-16,5	7,5	29	12,0	25
53112655	32 x 1,5	11,0-21,0	9,0	36	15,0	25
53112665	40 x 1,5	19,0-28,0	15,0	45	15,0	10
53112675	50 x 1,5	27,0-35,0	21,0	54	15,0	5

Accessories

- SKINDICHT® SM-PE-M see page 687



New

SKINTOP® MS-M BRUSH



■ Benefits

- Faster, easier screen contact
- Optimal low-resistance 360° screen contact
- Faster than any other comparable system
- Uncomplicated and reliable
- Maximum assembly and adjustment possibility

■ Application range

- For EMC compliant earthing of the copper braiding and copper shaft sheath
- Automotive systems
- Conveyor technology
- High power drives
- Frequency converters

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Note

- For painted, anodised or powdered-coated housings, you will require our EMC counter nut SKINDICHT® SM-PE-M for best contact



Info

- Sizes SKINTOP® MS-M BRUSH 75x1,5 to 110x2 with innovative double lamella gasket for easier assembling of cables with large diameters.
- Formerly product name: SKINTOP® MS-SC-M BRUSH

■ Technical data



Caution

Installation dimensions and tightening torques see Appendix T21



Approvals

VDE, UL, CSA, DNV approval for size M90x2 and 110x2 pending



Material

Body: nickel plated brass
Insert: polyamide
Seal: special elastomer
O-ring: special elastomer



Degree of protection

IP 68
IP 69 K (M12 x 1,5 - M63 x 1,5)



Range of temperature

Dynamic: -30°C up to +100°C

Part number	Part designation / size	Outer-Ø mm from - to	Minimum Ø above braiding in mm	SW mm	Thread length D mm	Pieces / PU
SKINTOP® MS-M BRUSH						
53112676	25 x 1,5	9.0-17.0	6.0	29	8.0	10
53112677	32 x 1,5	11.0-21.0	8.0	36	9.0	1
53112678	40 x 1,5	19.0-28.0	10.0	45	9.0	1
53112679	50 x 1,5	27.0-35.0	14.0	54	10.0	1
53112680	63 x 1,5	34.0-45.0	20.0	67	15.0	1
53112681	63 x 1,5 plus	44.0-55.0	25.0	75	15.0	1
53112501	75 x 1,5	53.0-63.0	35.0	95	15.0	1
53112500	75 x 1,5 plus	58.0-68.0	35.0	95	15.0	1
53112503	90 x 2	66.0-78.0	45.0	115	20.0	1
53112505	110 x 2	76.0-88.0	55.0	135	25.0	1
53112504	110 x 2 plus	86.0-98.0	55.0	135	25.0	1

■ Accessories

- SKINDICHT® SM-PE-M see page 687

New

SKINTOP® MS-M ATEX BRUSH


SKINTOP® MS-M ATEX BRUSH

Benefits

- Faster and less complicated assembling than any other system
- Optimal low-resistance 360° screen contact
- Easy adjustment of installed cable
- Easy disassembling
- Anti static, cold impact resistant and safe

Application range

- For EMC compliant earthing of the copper braiding and copper shaft sheath
- Chemical and petrochemical industry
- Plant engineering
- Equipment group II / Category 2G+1D
- Devices, machines of type of protection enhanced safety "e"

Approvals (Norm references)



Design

- Metric connection thread acc. to EN 50262

Note

- Type SKINDICHT® SHVE-M ATEX with earthing sleeve for clamping of smaller cable diameters

Technical data



Caution

Installation dimensions and tightening torques see instruction leaflet



Approvals

DNV for SKINDICHT® SHVE-M ATEX pending



Note

SKINDICHT® SHVE-M ATEX

IBExU08ATEX1161 X

Ex II 2G Ex e II

Ex II 1D Ex tD A20 IP 6X

SKINTOP® MS-M ATEX BRUSH

IBExU01ATEX1041 X

Ex II 2G Ex e II

Ex II 1D tD A20 IP6X



Material

SKINTOP® MS-M ATEX BRUSH

Body: nickel plated brass

Insert: special polyamide

EMV-Brush: brass

Seal: special elastomer

O-Ring: special elastomer

SKINDICHT® SHVE-M ATEX

Body: nickel plated brass

Earthing sleeve: brass

Seal: special elastomer

O-Ring: special elastomer

Tests

DIN EN 60079-0

DIN EN 60079-7



Degree of protection

IP 68



Range of temperature

SKINTOP® MS-M ATEX BRUSH

-30°C up to +90°C

SKINDICHT® SHVE-M ATEX

-20°C up to +80°C

Part number	Part designation / size	Outer-Ø mm from - to	Minimum Ø above braiding in mm	SW mm	Thread length D mm	Pieces / PU
SKINDICHT® SHVE-M ATEX						
52107102	20 x 1,5	6,9-8,9	5.0	24	6.0	10
SKINTOP® MS-M ATEX BRUSH						
52110023	25 x 1,5	9.0-17.0	6.0	29	8.0	10
52110024	32 x 1,5	11.0-21.0	8.0	36	9.0	1
52110025	40 x 1,5	19.0-28.0	10.0	45	9.0	1
52110026	50 x 1,5	27.0-35.0	14.0	54	10.0	1
52110027	63 x 1,5	34.0-45.0	20.0	67	15.0	1
52110028	63 x 1,5 plus	44.0-55.0	25.0	75	15.0	1

SKINTOP® GMP-GL-M



SKINTOP® GMP-GL-M

■ Benefits

- Glas fibre reinforced for maximum mechanical stability
- Bearing surface avoids scratchings on the housing while mounting with an wrench

■ Application range

- For locking of SKINTOP® cable glands in boreholes without thread.

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Note

- UL approval only when used with the UL approved SKINTOP® polyamide cable glands
- Designed for use in connection with metric SKINTOP® cable glands

■ Technical data



On request

Available without collar
(without surface for assembling tool)



Colour delivered

RAL 7001 silver-grey
RAL 7035 light grey
RAL 9005 black / UV resistant



Material

Polyamide, glass fibre reinforced



Range of temperature

Static: -40°C up to +100°C
Dynamic: -20°C up to +100°C

Part number	Part designation / size	SW mm	Pieces / PU
SKINTOP® GMP-GL-M silver grey			
53119000	12 x 1,5	17	100
53119010	16 x 1,5	22	100
53119020	20 x 1,5	27	100
53119030	25 x 1,5	34	100
53119040	32 x 1,5	41	100
53119050	40 x 1,5	50	25
53119060	50 x 1,5	60	25
53119070	63 x 1,5	75	25
SKINTOP® GMP-GL-M black			
53119100	12 x 1,5	17	100
53119110	16 x 1,5	22	100
53119120	20 x 1,5	27	100
53119130	25 x 1,5	34	100
53119140	32 x 1,5	41	100
53119150	40 x 1,5	50	25
53119160	50 x 1,5	60	25
53119170	63 x 1,5	75	25
SKINTOP® GMP-GL-M light grey			
53119003	12 x 1,5	17	100
53119013	16 x 1,5	22	100
53119023	20 x 1,5	27	100
53119033	25 x 1,5	34	100
53119043	32 x 1,5	41	100
53119053	40 x 1,5	50	25
53119063	50 x 1,5	60	25
53119073	63 x 1,5	75	25

New

SKINTOP® GMP-HF-M



Benefits

- Halogen-free
- Extremely flame retardant according to UL 94 V0
- Self extinguishing, no dripping

Application range

- For locking of SKINTOP® cable glands in boreholes without thread.
- Airports
- Tunnel construction
- Underground railways
- Public buildings

Approvals (Norm references)



Design

- Metric connection thread acc. to EN 50262

Note

- Designed for use with SKINTOP® ST-HF-M

Technical data

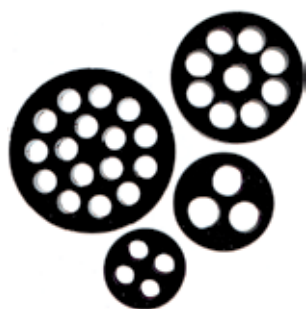
RAL	Colour delivered
	RAL 7035 light grey
	Material
	Polyamide UL94 V0 - halogen-free
	Range of temperature
	-20°C up to +100°C

Part number	Part designation / size	SW mm	PU
SKINTOP® GMP-HF-M			
53119200	12 x 1,5	17	100
53119210	16 x 1,5	22	100
53119220	20 x 1,5	27	100
53119230	25 x 1,5	34	100
53119240	32 x 1,5	41	100
53119250	40 x 1,5	50	25
53119260	50 x 1,5	60	25
53119270	63 x 1,5	75	25

Accessories

- SKINTOP® ST-HF-M see page 644

SKINTOP® DIX-M



■ Benefits

- For inserting different cables or wires into only one gland
- Higher packing density allows smaller part construction

■ Application range

- To be used in SKINTOP® cable glands.
- A sealing ring with several holes is used in place of the inner sealing insert.

■ Approvals (Norm references)



■ Note

- IP 68 can be achieved when all openings are closed and all bores are optimally occupied, i.e. when using cables with nominal diameter and/or SKINTOP® DIX-DV

■ Design

- SKINTOP® DIX-M VITON® is resistant to oil, water, alkaline solutions, acids, solvents,...

■ Technical data



On request

Special shapes



Colour delivered

RAL 9005 black



Material

NBR

VITON®



Degree of protection

IP 54



Range of temperature

-40°C up to +100°C

Part number	Part designation / size	Size M	Number of cables x Cable Ø	Pieces / PU
SKINTOP® DIX-M				
53316220	16,220	M 16	2 x 2.0	100
53316230	16,230	M 16	2 x 3.0	100
53316240	16,240	M 16	2 x 4.0	100
53320250	20,250	M 20	2 x 5.0	100
53320260	20,260	M 20	2 x 6.0	100
53320340	20,340	M 20	3 x 4.0	100
53320353	20,353	M 20	3 x 5.3	100
53320440	20,440	M 20	4 x 4.0	100
53320920	20,920	M 20	9 x 2.0	100
53320430	20,430	M 20	4 x 3.0	100
53325260	25,260	M 25	2 x 6.0	50
53325350	25,350	M 25	3 x 5.0	50
53325360	25,360	M 25	3 x 6.0	50
53325370	25,370	M 25	3 x 7.0	50
53325450	25,450	M 25	4 x 5.0	50
53325540	25,540	M 25	5 x 4.0	50
53325640	25,640	M 25	6 x 4.0	50
53332270	32,270	M 32	2 x 7.0	50
53332280	32,280	M 32	2 x 8.0	50
53332290	32,290	M 32	2 x 9.0	50
53332370	32,370	M 32	3 x 7.0	50
53332380	32,380	M 32	3 x 8.0	50
53332460	32,460	M 32	4 x 6.0	50
53332470	32,470	M 32	4 x 7.0	50
53332560	32,560	M 32	5 x 6.0	50
53332650	32,650	M 32	6 x 5.0	50
53332840	32,840	M 32	8 x 4.0	50
53332850	32,850	M 32	8 x 5.0	50
53332940	32,940	M 32	9 x 4.0	50
53340290	40,290	M 40	2 x 9.0	25
53340310	40,310	M 40	3 x 10.0	25
53340480	40,480	M 40	4 x 8.0	25
53340490	40,490	M 40	4 x 9.0	25
53340580	40,580	M 40	5 x 8.0	25
53340590	40,590	M 40	5 x 9.0	25
53340670	40,670	M 40	6 x 7.0	25
53340860	40,860	M 40	8 x 6.0	25
53340969	40,969	M 40	9 x 6.9	25
53350680	50,680	M 50	6 x 8.0	10
53350780	50,780	M 50	7 x 8.0	10
53350870	50,870	M 50	8 x 7.0	10
53350164	50,164	M 50	16 x 4.0	10
53350166	50,166	M 50	16 x 6.0	10
SKINTOP® DIX-M VITON®				
53420250	20,250	M 20	2 x 5.0	100
53420260	20,260	M 20	2 x 6.0	100
53440969	40,969	M 40	9 x 6.9	25

■ Accessories

- SKINTOP® CLICK see page 643
- SKINTOP® ST-M see page 641
- SKINTOP® DIX-DV see page 665

New

SKINTOP® DIX-M AUTOMATION



SKINTOP® DIX-M AUTOMATION

■ Benefits

- Optimum seal when using AS-I bus cables
- Easy insertion of pre assembled cables (with fieldbus or RJ-45 connector)
- Strain relief

■ Application range

- This seals can be used instead of our standard seals in the SKINTOP® cable glands.
- Switch cabinets
- Control panels
- Office applications
- Automation technology

■ Approvals (Norm references)



■ Note

- IP 68 can be achieved if the hole is optimally occupied, i. e. when using standard AS-I bus cables

■ Design

- True to dimension cut for AS-I bus cables
- Seal with hole and cut for easy insertion of pre assembled RJ-45 network cables
- Seal with hole and cut for easy insertion of pre assembled fieldbus cables
- Multiple seal inserts with holes and cuts for easy insertion of pre assembled cables

■ Technical data

RAL	Colour delivered
	RAL 9005 black
Material	
	NBR
IP	Degree of protection
	IP 54
Range of temperature	
	-40 °C up to +100 °C

Part number	Part designation / size	Number of cables x Cable Ø	Pieces / PU
SKINTOP® DIX-M ASI			
53611001	M 20	1 x AS-I	50
SKINTOP® DIX-M ASI DUO			
53611004	M 25	2 x AS-I	50
SKINTOP® DIX-M RJ-45			
53440980	M 25	1 x 5.4	50
SKINTOP® DIX-M FIELDBUS			
53440970	M 32	1 x 6.5	50
SKINTOP® DIX-M CUTTED			
53310444	M 40	3 x 10.0	25

■ Accessories

- SKINTOP® CLICK see page 643
- SKINTOP® MS-M see page 650
- SKINTOP® ST-M see page 641

SKINTOP® SDV-M ATEX / SKINTOP® SDVR-M ATEX



SKINTOP® SDV-M ATEX

■ Benefits

SKINTOP® SDV-M ATEX

- Permanent and secure sealing in explosion endangered areas
- Easy assembly
- High degree of protection

SKINTOP® SDVR-M ATEX

- Benefits see SKINTOP® SDV-M ATEX

■ Application range

SKINTOP® SDV-M ATEX

- SKINTOP® SDV-M ATEX is used together with SKINTOP® MS-M ATEX and SKINTOP® K-M ATEX types.
- Equipment group II / Category 2G+1D

SKINTOP® SDVR-M ATEX

- SKINTOP® SDVR-M ATEX is used together with SKINTOP® MSR-M ATEX and SKINTOP® KR-M ATEX types.
- Equipment group II / Category 2G+1D

■ Approvals (Norm references)



■ Note

SKINTOP® SDV-M ATEX

- Outside explosion endangered areas also for use in combination with SKINTOP® ST-M and SKINTOP® MS-M

SKINTOP® SDVR-M ATEX

- Outside explosion endangered areas also for use in combination with SKINTOP® STR-M and SKINTOP® MSR-M

■ Technical data

**Caution**

Installation dimensions and tightening torques see instruction leaflet

**On request**

Gland and sealing insert, pre-assembled

**Material**

CR

**Degree of protection****SKINTOP® SDV-M ATEX**

IP 68 - Sizes M12, M16, M20, M25, M32

IP 66 - Sizes M40, M50, M63

SKINTOP® SDVR-M ATEX

IP 68

**Range of temperature**

-30°C up to +70°C

short-term up to +90°C

Part number	Part designation / size	Outer-Ø mm from - to	Visible height mm	Pieces / PU
SKINTOP® SDV-M ATEX				
54113002	12 ATEX	-	SDV-M ATEX 3	50
54113012	16 ATEX	-	SDV-M ATEX 3	50
54113022	20 ATEX	-	SDV-M ATEX 3	50
54113032	25 ATEX	-	SDV-M ATEX 3	50
54113042	32 ATEX	-	SDV-M ATEX 4	25
54113052	40 ATEX	-	SDV-M ATEX 4	25
54113062	50 ATEX	-	SDV-M ATEX 4	10
54113072	63 ATEX	-	SDV-M ATEX 4	10
SKINTOP® SDVR-M ATEX				
54113013	16 ATEX	-	SDVR-MATEX 4	50
54113023	20 ATEX	-	SDVR-MATEX 5	50
54113033	25 ATEX	-	SDVR-MATEX 5	50
54113043	32 ATEX	-	SDVR-MATEX 5	25

SKINTOP® DIX-DV / SKINTOP® SD-M / SKINTOP® DV-M



■ Benefits

SKINTOP® DIX-DV

- Avoids intrusion of water and dust into not used bore holes of SKINTOP® DIX-M multiple sealing inserts

SKINTOP® SD-M

- Prevents dust and dirt from penetrating inside the housing

SKINTOP® DV-M

- Prevents humidity penetrating inside the housing

■ Application range

SKINTOP® DIX-DV

- For inserting into unoccupied holes of the SKINTOP® DIX-M multiple sealing inserts, to ensure protection class.

SKINTOP® SD-M

- This dust protection can be placed under the cap nut of the SKINTOP® cable glands.
- Preparatory works
- Protection of not used connection points

SKINTOP® DV-M

- This seals can be placed into the sealing ring of the SKINTOP® cable glands.
- Preparatory works
- Protection of not used connection points

■ Approvals (Norm references)



■ Note

SKINTOP® DIX-DV

- When assembled professionally and properly, the protection class IP 68 can be reached

SKINTOP® SD-M

- Easy handling, without disassembly - push through cable

SKINTOP® DV-M

- When assembled professionally and properly, the protection class IP 68 can be reached

■ Note

- Delivery will be in max. possible packing unit, minimum order quantity is one packing unit

■ Technical data

RAL	Colour delivered
	SKINTOP® DIX-DV
	Natural
	SKINTOP® SD-M
	Black
	SKINTOP® DV-M
	Black
Material	SKINTOP® DIX-DV
	Polyamide
	SKINTOP® SD-M
	PE foam
	SKINTOP® DV-M
	CR

Part number	Part designation / size	ØF mm	Height mm	Pieces / PU
SKINTOP® DIX-DV				
53100003	DIX-DV 3 x 9	3.0	9	100
53100004	DIX-DV 4 x 9	4.0	9	100
53100005	DIX-DV 5 x 11	5.0	11	100
53100055	DIX-DV 5,5 x 11	5.5	11	100
53100006	DIX-DV 6 x 14	6.0	14	100
53100007	DIX-DV 7 x 14	7.0	14	100
53100008	DIX-DV 8 x 14	8.0	14	100
53100009	DIX-DV 9 x 14	9.0	14	100
SKINTOP® SD-M				
54113100	12	11.5	2	100
54113110	16	15.0	2	100
54113120	20	20.0	2	100
54113130	25	25.0	2	50
54113140	32	30.0	2	50
54113150	40	40.0	2	25
54113160	50	49.0	2	25
54113170	63	58.0	2	25
SKINTOP® DV-M				
54113000	12	7.2	7	500
54113010	16	10.0	8	500
54113020	20	13.2	8.4	250
54113030	25	17.2	9.5	250
54113040	32	21.2	12	250
54113050	40	28.2	14.5	100
54113060	50	35.8	18	100
54113070	63	45.6	20	50

■ Accessories

SKINTOP® DIX-DV

- SKINTOP® DIX-M see page 662

New

SKINTOP® CUBE



SKINTOP® CUBE

SKINTOP® CUBE FRAME

SKINTOP® CUBE MODULE

■ Benefits

- Various clamping range
- Vibration safe fixed modules
- Strain relief
- Oil resistance
- Simplified service due to easy assembling and disassembling

■ Application range

- For installation of harnessed cables
- Everywhere where cables must be safely inserted into housings.
- Apparatus and switch cabinet construction
- Electronic installations
- Automation technology

■ Approvals (Norm references)



■ Design

- SKINTOP® CUBE consists of SKINTOP® CUBE FRAME and the flexible clip module SKINTOP® CUBE MODULE.
- For cut-outs for industrial connectors with standard defined bore holes.
- For cut-outs for 16-pole industrial connectors (36 x 86mm)
- For cut-outs for 24-pole industrial connectors (36 x 112mm)

■ Scope of delivery

- SKINTOP® CUBE FRAME including mounting material

■ Suitable tools

- Kraftform Kompakt® 10



Info

- Innovative multi cable bushing system with variable clamping ranges for high assembling flexibility.
- In case of disassembling frame can remain on housing and clip module on the cable.

■ Technical data



Approvals

UL pending



Material

Frame: Glas fibre reinforced polyamide

Frame seal: CR

Clip Module: Special polypropylene

Clip Module Seal: LSE 2



Degree of protection

IP 64



Range of temperature

-20°C up to +80°C

Part number	Part designation / size	Clamping range ØF mm	Max. Number of executions	Pieces / PU
SKINTOP® CUBE Frame				
52220000	SKINTOP® CUBE FRAME 16		8	1
52220001	SKINTOP® CUBE FRAME 24		10	1
SKINTOP® CUBE Clip Module				
52220002	SKINTOP® CUBE MODULE 20x20 SMALL	4 - 6		5
52220003	SKINTOP® CUBE MODULE 20x20 LARGE	6 - 9		5
52220004	SKINTOP® CUBE MODULE 20x20 BLIND			5
52220005	SKINTOP® CUBE MODULE 40x40 SMALL	9 - 12		5
52220006	SKINTOP® CUBE MODULE 40x40 LARGE	12 - 16		5
52220007	SKINTOP® CUBE MODULE 40x40 BLIND			5

■ Comparable products

- Cable Bushing System CABLEFIX

■ Accessories

- FLEXIMARK® LB-10 W



SKINTOP® CUBE

Cablefix



Benefits

- Time-saving assembly
- High packing density
- Strain relief closes automatically when the cable is pushed through
- For repairs, maintenance or upgrades, the individual cables can easily be detached with the spring clamp and replaced

Technical data



Material

Flange: PA 6.6

Seal: SBR/NBR 45



Degree of protection

IP 55

Application range

- Housing opening for connecting sensor/actuator cables and bus cables.

Approvals (Norm references)



Note

- Implementation of cables only possible if not harnessed (without connectors).

Scope of delivery

- Including blind plugs, if not fully occupied

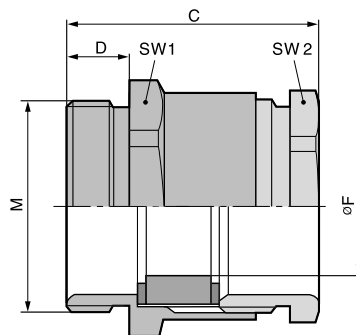
Part number	Part designation / size	Number of cables x Cable Ø	Cut-out W x H	Dimension: L x W x H in mm	Pieces / PU
Sensor/actuator flange (S/A)					
62130000	1 x S/A	8 x 3,8 - 6,3	46.0 x 46.0	50 x 50 x 10	5
62130010	2 x S/A	16 x 3,8 - 6,3	96.0 x 46.0	2 x (50 x 50 x 10)	10
Bus/Vcc flange (B/V) + sensor/actuator flange (S/A)					
62130070	1 x B/V	2 x 6,1 - 8,8 + 2 x 7,8 - 10,7	46.0 x 46.0	50 x 50 x 10	5
62130080	1 x B/V + 1 x S/A	2 x 6,1 - 8,8 + 2 x 7,8 - 10,7 + 8 x 3,8 - 6,3	96.0 x 46.0	2 x (50 x 50 x 10)	10

SKINDICHT® SVRN-M / SKINDICHT® SVRE-M



SKINDICHT® SVRN-M

SKINDICHT® SVRE-M



■ Benefits

SKINDICHT® SVRN-M

- High mechanic stability
- Optimal strain relief

SKINDICHT® SVRE-M

- Incised sealing ring can be adjusted to clamp several cable diameters
- Fewer sizes need to be kept in stock

■ Application range

SKINDICHT® SVRN-M

- Brass cable gland with hexagonal fitting and metric connecting thread for fast assembly with a flat spanner.

SKINDICHT® SVRE-M

- Brass cable gland with hexagonal fitting and variable incised sealing ring.

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Note

SKINDICHT® SVRN-M

- Counter nut to be used SKINDICHT® SM-M

SKINDICHT® SVRE-M

- For additional accessories see SKINDICHT® EV
- Counter nut to be used SKINDICHT® SM-M

■ Technical data



Caution
Installation dimensions
see Appendix T21



On request

SKINDICHT® SVRN-M

Available with long connection thread

SKINDICHT® SVRE-M

Available with long connection thread

Available with VITON® incised ring



Material

SKINDICHT® SVRN-M

Body: Nickel plated brass

Sealing ring: CR/NBR

SKINDICHT® SVRE-M

Body: Nickel plated brass

Incised sealing ring: CR/NBR



Degree of protection

IP 54



Range of temperature

SKINDICHT® SVRN-M

-20°C up to +100°C

SKINDICHT® SVRE-M

-20°C up to +80°C

Part number	Part designation / size	Incised sealing ring ØF, mm	Max. internal Ø in mm	Function thread PG	SW 1 / SW 2 mm	Overall length C mm	Thread length D mm	Clear opening F mm	Pieces / PU
SKINDICHT® SVRN-M									
52104800	12 x 1,5			7	14 / 13	20,6	5,0	5	100
52104810	12 x 1,5			7	14 / 13	20,6	5,0	6	100
52104820	12 x 1,5			7	14 / 13	20,6	5,0	7	100
52104830	16 x 1,5			9	18 / 15	21,6	5,0	7	100
52104840	16 x 1,5			9	18 / 15	21,6	5,0	8	100
52104850	16 x 1,5			9	18 / 15	21,6	5,0	9	100
52104860	20 x 1,5			11	22 / 18	23,6	6,0	10	50
52104870	20 x 1,5			11	22 / 18	23,6	6,0	11	50
52104880	20 x 1,5			13,5	22 / 20	25,6	6,0	11	50
52104890	20 x 1,5			13,5	22 / 20	25,6	6,0	12	50
52104900	20 x 1,5			16	24 / 22	26,6	6,0	13	50
52104910	20 x 1,5			16	24 / 22	26,6	6,0	14	50
52104920	25 x 1,5			21	30 / 28	29,6	7,0	18	50
52104930	32 x 1,5			29	40 / 37	32,6	8,0	27	50
52104940	40 x 1,5			36	50 / 47	37,6	8,0	34	20
SKINDICHT® SVRE-M									
52104980	16 x 1,5	5/8	12,0	9	18 / 15	21,6	5,0		100
52104990	20 x 1,5	7/10/12,5	15,0	11	22 / 18	22,6	6,0		50
52105000	20 x 1,5	7/10,5/13/16	15,0	13,5	22 / 20	25,6	6,0		50
52105010	20 x 1,5	8/10,5/13,5/16	15,0	16	24 / 22	26,6	6,0		50
52105002	25 x 1,5	11/15/18/20	20,0	21	30 / 28	29,6	7,0		50
52105003	32 x 1,5	19/23/27/31	27,0	29	40 / 37	32,6	8,0		50
52105004	40 x 1,5	25/28/31/35	34,0	36	50 / 47	37,6	8,0		20
52105005	50 x 1,5	35,5/39/42,5/46	44,0	42	57 / 54	42,6	9,0		5
52105006	63 x 1,5	40,5/44/47/50,5	54,0	48	66 / 60	45,1	10,0		5

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SKINDICHT® SVRX



SKINDICHT® SVRX W



SKINDICHT® SVRX Z

■ Benefits

- EMC type for cables with large diameters
- SKINDICHT® SVRX-M 105x2 for cable diameters up to 83 mm

■ Application range

- The cable gland in accordance with DIN 89280 with round intermediate supports made from brass, plain.
- Shipbuilding
- Off-Shore
- High power drives
- Wind energy systems

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262
- With incised sealing ring
- M20x1,5 - M25x1,5 with 2 screw holes
- M32x1,5 with 4 screw holes

■ Note

- EMC counter nuts (with claw) SKINDICHT® SM-PE / SVRX M24-M56 for painted, anodised or powder-coated housing on request
- For further EMC cable glands, see SKINTOP® MS-SC-M and MS-M BRUSH, suitable counter nut SKINDICHT® SM-PE-M

■ Design

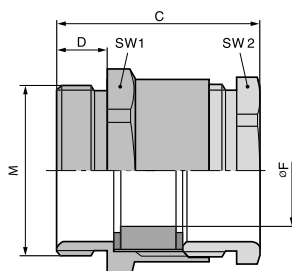
- Type "W" for cable without screen (figure 1)
- Type "Z" for cables with screen (figure 2)

■ Technical data

	Caution Installation dimensions see Appendix T21
	Approvals DIN 89280
	On request Available with Viton® incised ring and Viton® O-ring
	Material Body: Blank brass Seal: EPDM
	Degree of protection IP 56
	Range of temperature -20 °C up to +80 °C

Part number	Part designation / size	Thread	SW mm	Clear opening F mm	Pieces / PU
SKINDICHT® SVRX - version W					
52006460	SVRX 5635	M 56 x 2	55	32 - 35	1
52006470	SVRX 5638	M 56 x 2	55	35 - 38	1
52006480	SVRX 5641	M 56 x 2	55	38 - 41	1
52006490	SVRX 7244	M 72 x 2	70	41 - 44	1
52006500	SVRX 7248	M 72 x 2	70	44 - 48	1
52006510	SVRX 7252	M 72 x 2	70	48 - 52	1
52006520	SVRX 7256	M 72 x 2	70	52 - 56	1
52006530	SVRX 8066	M 80 x 2	85	62 - 66	1
52006540	SVRX 10573	M 105 x 2	104	68 - 73	1
52006550	SVRX 10572	M 105 x 2	104	78 - 83	1
52006564	SVRX 8059	M 80 x 2	85	56 - 59	1
SKINDICHT® SVRX - version Z					
52006345	SVRX 2412	M 24 x 1,5	24	10 - 12	1
52006355	SVRX 2414	M 24 x 1,5	24	12 - 14	1
52006365	SVRX 2416	M 24 x 1,5	24	14 - 16	1
52006375	SVRX 2417	M 24 x 1,5	24	16 - 17	1
52006425	SVRX 3626	M 36 x 2	36	24 - 26	1
52006465	SVRX 5635	M 56 x 2	55	32 - 35	1
52006475	SVRX 5638	M 56 x 2	55	35 - 38	1
52006485	SVRX 5641	M 56 x 2	55	38 - 41	1
52006495	SVRX 7244	M 72 x 2	70	41 - 44	1
52006505	SVRX 7248	M 72 x 2	70	44 - 48	1
52006515	SVRX 7252	M 72 x 2	70	48 - 52	1
52006565	SVRX 8059	M 80 x 2	85	56 - 59	1
52006535	SVRX 8066	M 80 x 2	85	62 - 66	1
52006545	SVRX 10573	M 105 x 2	104	68 - 73	1
SKINDICHT® SM/SVRX					
52006321	SM 24	M24	30		1
52006401	SM 36	M36	41		1
52006461	SM 56	M56	65		1
52006491	SM 72	M72	85		1
52006531	SM 80	M80	90		1
52006541	SM 105	M105	120		1

SKINDICHT® SVFK-M



SKINDICHT® SVFK-M

■ Benefits

- Economic type
- Lateral sealing lips fit automatically around various cable dimensions
- Cable-specific seal dimensions are no longer necessary
- Dimensional adaptability
- Large clear opening allows clamping of up to two flat cables

■ Application range

- For inserting of flat cables.
- Conveyor systems
- Pumps
- Elevators
- Switch cabinet building

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Note

- Counter nut to be used SKINTOP® GMP-GL-M
- For suitable flat cables, see ÖLFLEX® LIFT F for indoor applications or ÖLFLEX® CRANE F for outdoor applications

■ Technical data



Caution
Installation dimensions
see Appendix T21



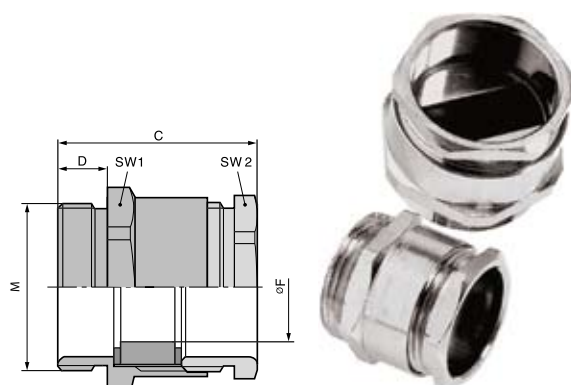
Material
Body: Polyamide
Special sealing insert: CR



Range of temperature
-30°C up to +80°C

Part number	Part designation / size	Flat cable width min./ max.	Min./ max. cable thickness in mm	SW1 / SW2 mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINDICHT® SVFK-M							
52107900	SVFK-M 25 x 1,5	- / 15.0	-- 5.0	23 / 27	41.0	11.0	25
52107901	SVFK-M 32 x 1,5	10.0 / 21.0	3.0 - 8.0	30 / 36	39.0	10.0	25
52107902	SVFK-M 40 x 1,5	16.0 / 28.0	4.0 - 11.5	40 / 42	44.0	11.0	25
52107903	SVFK-M 50 x 1,5	26.0 / 35.0	4.0 - 11.5	50 / 53	50.5	11.0	5
52107904	SVFK-M 50 x 1,5	30.0 / 40.0	5.0 - 15.0	55 / 60	53.5	11.0	5
52107905	SVFK-M 63 x 1,5	36.0 / 45.0	5.0 - 15.0	60 / 65	54.5	11.0	5

SKINDICHT® SVF-M



SKINDICHT® SVF-M

■ Benefits

- Lateral sealing lips fit automatically around various cable dimensions
- Cable-specific seal dimensions are no longer necessary
- Large clear opening allows clamping of up to two flat cables
- Optimal strain relief
- Dimensional adaptability

■ Application range

- For inserting of flat cables.
- Switch cabinet building
- Conveyor systems
- Pumps
- Elevators

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Note

- For suitable flat cables, see ÖLFLEX® LIFT F for indoor applications or ÖLFLEX® CRANE F for outdoor applications
- Counter nut to be used SKINDICHT® SM-M

■ Technical data

Caution
Installation dimensions
see Appendix T21

Material
Body: Nickel plated brass
Seal: CR

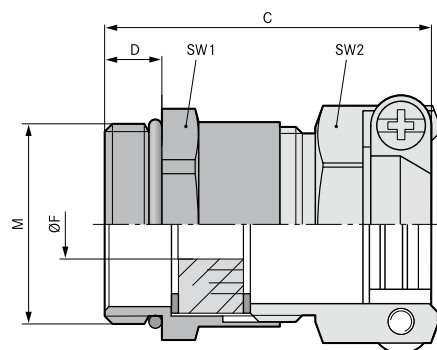
Range of temperature
-30°C up to +100°C

Part number	Part designation / size	Flat cable width min./ max.	Min./ max. cable thickness in mm	Pieces / PU
SKINDICHT® SVF-M				
52107320	M 20 / 16	- / 15.0	- / 5	25
52107340	M 25 / 21	9.0 / 20.0	3 / 8	25
52107350	M 32 / 29	14.0 / 27.0	4 / 11	10
52107360	M 40 / 36	24.0 / 34.0	4 / 11	10
52107370	M 50 / 42	29.0 / 44.0	5 / 12	5
52107380	M 63 / 48	34.0 / 50.0	5 / 12	5

SKINDICHT® SKZ-M



SKINDICHT® SKZ-M



■ Benefits

- Incised sealing ring can be adjusted to clamp several cable diameters
- High strain relief
- High mechanic stability

■ Application range

- Saddle clamp strain relief gland for raw applications.
- Building sites
- Plant engineering
- Drives

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Note

- SKINDICHT® SHZ-M-XL is similar to the SKINDICHT® SHZ-M, but has an extended connection thread for thick walls
- Counter nut to be used SKINDICHT® SM-M
- For additional accessories see SKINDICHT® EV

■ Technical data



Caution
Installation dimensions
see Appendix T21



On request
Available with Viton® incised ring and Viton® O-ring



Material
Body: Nickel plated brass
Incised sealing ring: CR/NBR
O-ring: NBR



Degree of protection
IP 55

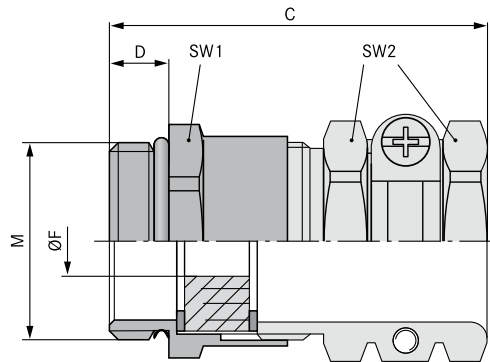


Range of temperature
-20°C up to +80°C

Part number	Part designation / size	ØF mm	Max. fitting size for installation in mm	Function thread PG	SW1 / SW2 mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINDICHT® SKZ-M								
52106800	16 x 1,5	5.0 - 8.0	24	9	18 / 17	29.0	5.0	50
52106810	20 x 1,5	7.0 - 12.0	27	11	22 / 20	30.0	6.0	50
52106820	20 x 1,5	11.0 - 13.0	30	13.5	22 / 22	33.5	6.0	25
52106830	20 x 1,5	13.0 - 15.0	33	16	24 / 24	34.5	6.0	25
52106840	25 x 1,5	16.0 - 19.3	42	21	30 / 30	41.0	7.0	25
52106850	32 x 1,5	19.0 - 27.0	58	29	40 / 41	46.0	8.0	10
SKINDICHT® SKZ-M-XL								
52106805	16 x 1,5	5.0 - 8.0	24	9	18 / 17	34.0	10.0	50
52106815	20 x 1,5	7.0 - 12.0	27	11	22 / 20	34.0	10.0	50
52106825	20 x 1,5	11.0 - 13.0	30	13.5	22 / 22	37.5	10.0	25
52106835	20 x 1,5	13.0 - 15.0	33	16	24 / 24	38.5	10.0	25
52106845	25 x 1,5	16.0 - 19.3	42	21	30 / 30	45.0	11.0	25
52106855	32 x 1,5	19.0 - 27.0	58	29	40 / 41	51.0	13.0	10

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SKINDICHT® SHZ-M



SKINDICHT® SHZ-M

Benefits

- Incised sealing ring can be adjusted to clamp several cable diameters
- High strain relief
- Robust
- For cables with large outer diameters

Application range

- Compact brass cable gland for reliable strain relief, solid, for large cable diameters.

Approvals (Norm references)



Design

- Metric connection thread acc. to EN 50262

Note

- SKINDICHT® SHZ-M-XL is similar to the SKINDICHT® SHZ-M, but has an extended connection thread for thick walls
- For additional accessories see SKINDICHT® EV
- Counter nut to be used SKINDICHT® SM-M

Technical data

- Caution**
Installation dimensions see Appendix T21
- On request**
Available with Viton® incised ring and Viton® O-ring
- Material**
Body: Nickel plated brass
Seal: CR/NBR
O-ring: NBR
- Degree of protection**
IP 55
- Range of temperature**
-20°C up to +80°C

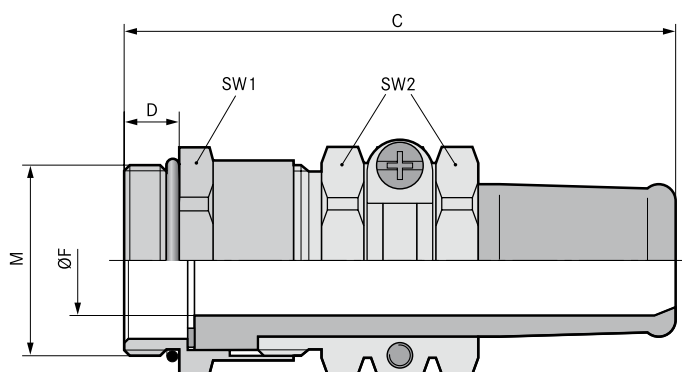
Part number	Part designation / size	ØF mm	Max. fitting size for installation in mm	Function thread PG	SW1 / SW2 mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINDICHT® SHZ-M								
52106700	12 x 1,5	5.5 - 6.5	21	7	14 / 15	30.0	5.0	50
52106710	16 x 1,5	5.0 - 8.0	25	9	18 / 17	33.0	5.0	50
52106720	20 x 1,5	8.0 - 12.0	28	11	22 / 20	35.0	6.0	25
52106730	20 x 1,5	8.5 - 13.0	32	13.5	22 / 22	39.5	6.0	25
52106740	20 x 1,5	8.0 - 15.0	35	16	24 / 24	41.5	6.0	25
52106750	25 x 1,5	14.0 - 19.3	46	21	30 / 30	47.0	7.0	25
52106760	32 x 1,5	19.0 - 27.0	58	29	40 / 41	53.0	8.0	10
52106770	40 x 1,5	27.0 - 34.0	70	36	50 / 50	60.0	8.0	10
52106780	50 x 1,5	35.0 - 43.0	78	42	57 / 57	65.0	9.0	5
52106790	63 x 1,5	40.0 - 47.5	86	48	66 / 64	68.0	10.0	5
SKINDICHT® SHZ-M-XL								
52106705	12 x 1,5	5.5 - 6.5	21	7	14 / 15	35.0	10.0	50
52106715	16 x 1,5	5.0 - 8.0	25	9	18 / 17	38.0	10.0	50
52106725	20 x 1,5	8.0 - 12.0	28	11	22 / 20	39.0	10.0	25
52106735	20 x 1,5	8.5 - 13.0	32	13.5	22 / 22	43.5	10.0	25
52106745	20 x 1,5	8.0 - 15.0	35	16	24 / 24	45.5	10.0	25
52106755	25 x 1,5	14.0 - 19.3	46	21	30 / 30	51.0	11.0	25
52106765	32 x 1,5	19.0 - 27.0	58	29	40 / 41	58.0	13.0	10
52106775	40 x 1,5	27.0 - 34.0	70	36	50 / 50	67.0	13.0	10
52106785	50 x 1,5	35.0 - 43.0	78	42	57 / 57	70.0	14.0	5
52106795	63 x 1,5	40.0 - 47.5	86	48	66 / 64	73.0	14.0	5

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SKINDICHT® SR-M



SKINDICHT® SR-M



■ Benefits

- Reliable bending and antikink protection
- High strain relief
- Robust
- For cables with large outer diameters
- High degree of protection

■ Application range

- Cables for electrical appliances and machinery, which are moved under normal use, must be protected against excessive bending, as required in accordance with VDE 0730.
- Hand-held equipment
- Movable machinery
- Building sites
- Flexing machine parts

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Note

- Counter nut to be used SKINDICHT® SM-M
- EMC type please see SKINDICHT® SRE-M

■ Technical data



Caution
Installation dimensions
see Appendix T21



On request
Available with long connection thread



Material
Metal parts: Nickel plated brass
O-ring: NBR
Antikink protection: CR/NBR



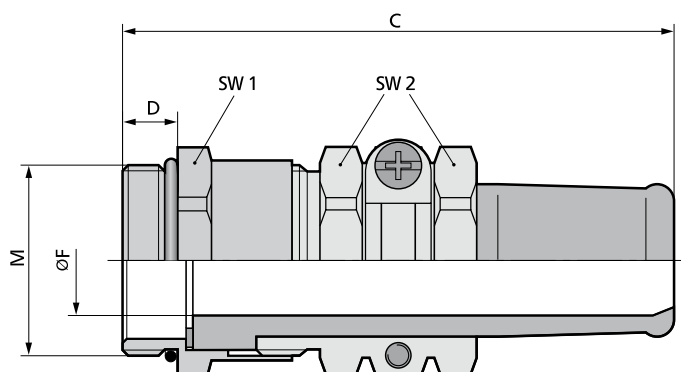
Degree of protection
IP 65



Range of temperature
-20°C up to +80°C

Part number	Part designation / size	Clamping range ØF mm	Max. fitting size for installation in mm	Function thread PG	SW1 / SW2 mm	Overall length C mm	Thread length D mm	Clear opening F mm	Pieces / PU
SKINDICHT® SR-M									
52106410	12 x 1,5	4 - 5	23	7	14 / 15	49.0	5.0	5	50
52106420	16 x 1,5	5.5 - 7	25	9	18 / 17	50.0	5.0	7	50
52106430	20 x 1,5	5.5 - 7	28	11	22 / 20	55.0	6.0	7	25
52106440	20 x 1,5	7.5 - 9	28	11	22 / 20	55.0	6.0	9	25
52106450	20 x 1,5	7.5 - 9	32	13.5	22 / 22	60.0	6.0	9	25
52106460	20 x 1,5	9 - 11	32	13.5	22 / 22	60.0	6.0	11	25
52106470	20 x 1,5	11 - 13	32	13.5	22 / 22	60.0	6.0	13	25
52106480	20 x 1,5	12 - 13	35	16	24 / 24	65.0	6.0	13	25
52106481	20 x 1,5	13 - 15	35	16	24 / 24	66.0	6.0	15	25
52106490	25 x 1,5	12.5 - 15	46	21	30 / 30	78.5	7.0	15	25
52106500	25 x 1,5	14 - 17	46	21	30 / 30	78.5	7.0	17	25
52106510	25 x 1,5	17 - 19	46	21	30 / 30	78.5	7.0	19	25
52106520	25 x 1,5	17 - 20	46	21	30 / 30	78.5	7.0	20	25
52106530	32 x 1,5	19 - 20	59	29	40 / 41	90.5	8.0	20	10
52106540	32 x 1,5	22 - 23	59	29	40 / 41	90.5	8.0	23	10
52106550	32 x 1,5	23 - 25	59	29	40 / 41	90.5	8.0	25	10
52106560	40 x 1,5	24 - 26	70	36	50 / 50	108.0	8.0	26	5
52106570	40 x 1,5	28 - 30	70	36	50 / 50	108.0	8.0	30	5
52106580	40 x 1,5	31 - 33	70	36	50 / 50	108.0	8.0	33	5
52106590	40 x 1,5	33 - 34.5	70	36	50 / 50	108.0	8.0	35	5
52106600	50 x 1,5	31 - 34.5	75	42	57 / 57	111.0	9.0	35	5
52106610	50 x 1,5	32 - 38	75	42	57 / 57	111.0	9.0	38	5
52106620	50 x 1,5	37 - 40	75	42	57 / 57	111.0	9.0	40	5
52106630	63 x 1,5	32 - 40	83	48	66 / 64	118.0	10.0	40	1
52106640	63 x 1,5	36 - 44	83	48	66 / 64	118.0	10.0	44	1

SKINDICHT® SR-SV-M



SKINDICHT® SR-SV-M

■ Benefits

- For high temperatures
- Resistant against oils, solvents, acids and chemicals
- Seawater-resistant
- High strain relief
- Robust

■ Application range

- Cables for electrical appliances and machinery, which are moved under normal use, must be protected against excessive bending, as required in accordance with VDE 0730.
- Special cable gland with VITON® antikink sleeve. Our own reinforced acid-resistant VITON® receptacle does not show an aging effect even after a long usage period at a temperature of +165°C.
- Machine and turbine manufacturing
- Plant construction
- Laboratory

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Note

- Counter nut to be used SKINDICHT® SM-M
- EMC type on request

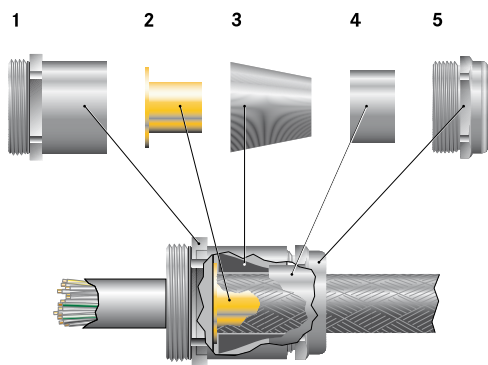
■ Technical data

- Caution**
Installation dimensions see Appendix T21
- Material**
Body: Nickel plated brass
O-ring: FKM
Antikink protection: FKM
- Degree of protection**
IP 65
- Range of temperature**
-15°C up to +165°C

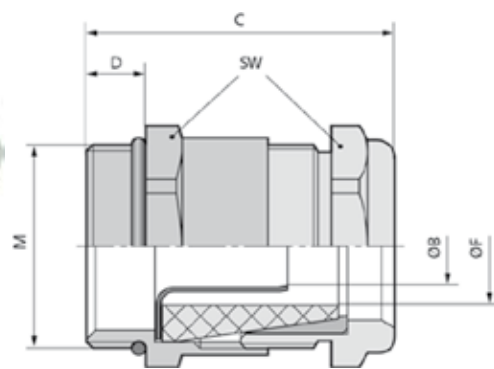
Part number	Part designation / size	Clamping range ØF mm	Max. fitting size for installation in mm	Function thread PG	SW1 / SW2 mm	Overall length C mm	Thread length D mm	Clear opening F mm	Pieces / PU
SKINDICHT® SR-SV-M									
52105820	20 x 1,5	5.5 - 7	28	11.0	22 / 20	56.0	6.0	7	25
52105830	20 x 1,5	7.5 - 9	28	11.0	22 / 20	56.0	6.0	9	25
52105840	20 x 1,5	7.5 - 9	32	13.5	22 / 22	61.5	6.0	9	25
52105850	20 x 1,5	8.5 - 11	32	13.5	22 / 22	61.5	6.0	11	25
52105860	20 x 1,5	10.5 - 13	32	13.5	22 / 22	61.5	6.0	13	25
52105870	20 x 1,5	11 - 13	35	16.0	24 / 24	66.5	6.0	13	10
52105880	20 x 1,5	12 - 15	35	16.0	24 / 24	66.5	6.0	15	10
52105890	25 x 1,5	13.5 - 15	40	21.0	30 / 30	79.0	7.0	15	10
52105900	25 x 1,5	15.5 - 17	46	21.0	30 / 30	79.0	7.0	17	10
52105910	25 x 1,5	16.5 - 19	46	21.0	30 / 30	79.0	7.0	19	10

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SKINDICHT® SHVE-M



SKINDICHT® SHVE-M



■ Benefits

- Optimal low-resistance 360° screen contact
- High degree of protection
- High strain relief

■ Application range

- Brass gland for earthing, for applications where electrical interference fields may occur.
- Medical engineering
- Frequency converters
- Airports
- Measurement and control technology

■ Product features

- The allocation to the cable is made
- 1 fitting
- 2 earth sleeve
- 3 sealing cone

■ Approvals (Norm references)



■ Design

- 1 fitting
- 2 earth sleeve
- 3 sealing cone
- 4 cone brass
- 5 compression screw

■ Note

- Counter nut to be used SKINDICHT® SM-M
- For painted, anodised or powdered-coated housings, you will require our EMC counter nut SKINDICHT® SM-PE-M for best contact
- For further EMC cable glands, see SKINTOP® MS-SC-M and MS-M BRUSH, suitable counter nut SKINDICHT® SM-PE-M

■ Technical data

⚠ Caution

Installation dimensions
see Appendix T21



■ Material

Body: Nickel plated brass
Earthing sleeve: Bright brass
Cone seal: CR
O-ring: NBR



■ Degree of protection

IP 68 - 10 bar

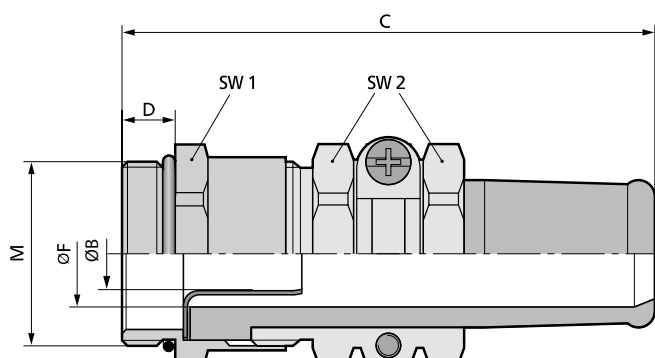


■ Range of temperature

-20°C up to +80°C

Part number	Part designation / size	Function thread PG	Outer sheath clamping range ØF mm	Inner sheath clamping range mm	SW 1 / SW2 mm	Overall length C mm	Thread length D mm	Clear opening EH ØB	Clear opening F mm	Pieces / PU
SKINDICHT® SHVE-M										
52106860	16 x 1,5	9	4,5 - 5,8	2,2 - 3,11	18 / 17	26,5	5,0	3,2	6	25
52106870	16 x 1,5	9	4,5 - 6,8	2,2 - 3,23	18 / 17	26,5	5,0	3,2	7	25
52106880	16 x 1,5	9	5,5 - 5,8	2,6 - 3,17	18 / 17	26,5	5,0	3,6	6	25
52106890	16 x 1,5	9	5,5 - 6,8	2,6 - 3,67	18 / 17	26,5	5,0	3,6	7	25
52106910	20 x 1,5	11	3 - 6,8	3,5 - 4,52	22 / 20	31,0	6,0	4,5	7	25
52106920	20 x 1,5	11	6 - 8,8	3,5 - 4,45	22 / 20	31,0	6,0	4,5	9	25
52106930	20 x 1,5	13,5	6,5 - 8,8	3,5 - 5,00	22 / 22	32,0	6,0	5,0	9	25
52106940	20 x 1,5	13,5	6 - 8,8	4,5 - 5,95	22 / 22	32,0	6,0	6,0	9	25
52106950	20 x 1,5	13,5	8 - 10,8	5,5 - 6,92	22 / 22	32,0	6,0	7,0	11	25
52106960	20 x 1,5	16	8,5 - 10,8	6,00 - 7,93	24 / 24	34,5	6,0	8,0	11	25
52106970	20 x 1,5	16	10 - 12,8	7,00 - 9,00	24 / 24	34,5	6,0	9,0	13	25
52106980	20 x 1,5	16	10 - 12,8	8,00 - 10,00	24 / 24	34,5	6,0	10,0	13	25
52106990	20 x 1,5	16	12,5 - 14,8	9,00 - 11,03	24 / 24	34,5	6,0	11,0	15	25
52107000	25 x 1,5	21	13 - 15,8	10,00 - 12,15	30 / 30	39,0	7,0	12,0	16	25
52107010	25 x 1,5	21	13 - 15,8	11,00 - 13,00	30 / 30	39,0	7,0	13,0	16	25
52107020	25 x 1,5	21	15,5 - 17,8	12,00 - 14,00	30 / 30	39,0	7,0	14,0	18	25
52107030	25 x 1,5	21	15 - 17,8	13,00 - 15,00	30 / 30	39,0	7,0	15,0	18	25
52107040	25 x 1,5	21	17,5 - 19,8	14,00 - 16,00	30 / 30	39,0	7,0	16,0	20	25
52107050	32 x 1,5	29	19 - 21,8	15,00 - 17,02	40 / 40	45,5	8,0	17,0	22	10
52107060	32 x 1,5	29	18 - 23,8	16,00 - 18,00	40 / 40	45,5	8,0	18,0	22	10
52107070	32 x 1,5	29	20 - 23,8	17,00 - 19,00	40 / 40	45,5	8,0	19,0	24	10
52107080	32 x 1,5	29	23 - 25,8	17,00 - 19,00	40 / 40	45,5	8,0	19,0	26	10

SKINDICHT® SRE-M



SKINDICHT® SRE-M

■ Benefits

- Perfect seal with antikink protection
- Optimal low-resistance 360° screen contact
- Cable protecting strain relief
- Gentle cable clamping
- High degree of protection

■ Application range

- Brass gland for earthing with additional antikink protection. For applications where electrical interference fields may occur.
- Flexing machine parts
- Conveying and transport systems
- Production lines
- Measurement and control technology

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Note

- Counter nut to be used SKINDICHT® SM-M
- For painted, anodised or powdered-coated housings, you will require our EMC counter nut SKINDICHT® SM-PE-M for best contact

■ Technical data



Caution

Installation dimensions
see Appendix T21



On request

Available with long connection thread



Material

Body: nickel plated brass
Earthing sleeve: plain brass
Anti-kink sleeve: CR/NBR
O-ring: NBR



Degree of protection

IP 65

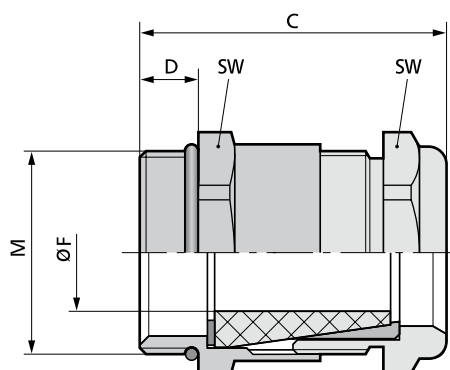


Range of temperature

-20°C up to +80°C

Part number	Part designation / size	Function thread PG	Outer sheath clamping range ØF mm	Inner sheath clamping range mm	SW 1 / SW 2 mm	Overall length C mm	Thread length D mm	Clear opening EH ØB	Clear opening F mm	Pieces / PU
SKINDICHT® SRE-M										
52105600	20 x 1,5	13.5	7,5 - 9	4,5 - 6	22 / 22	59.5	6.0	6.0	9	25
52105610	20 x 1,5	13.5	9 - 11	5,5 - 7	22 / 22	59.5	6.0	7.0	11	25
52105620	20 x 1,5	16	11 - 13	7 - 9	24 / 24	64.5	6.0	9.0	13	25
52105630	20 x 1,5	16	11 - 13	8 - 10	24 / 24	64.5	6.0	10.0	13	25
52105640	20 x 1,5	16	13,5 - 15	9 - 11	24 / 24	64.5	6.0	11.0	15	25
52105650	25 x 1,5	21	13,5 - 15	10 - 12	30 / 30	78.0	7.0	12.0	15	25
52105660	25 x 1,5	21	15 - 17	12 - 14	30 / 30	78.0	7.0	14.0	17	25
52105670	25 x 1,5	21	17 - 19	13 - 15	30 / 30	78.0	7.0	15.0	19	25
52105680	25 x 1,5	21	18 - 20	14 - 16	30 / 30	78.0	7.0	16.0	20	25
52105690	32 x 1,5	29	18 - 20	15 - 17	40 / 40	90.0	8.0	17.0	20	10
52105700	32 x 1,5	29	21 - 23	17 - 19	40 / 40	90.0	8.0	19.0	23	10
52105710	40 x 1,5	36	23,5 - 26	20 - 22	50 / 50	108.0	8.0	22.0	26	5
52105720	40 x 1,5	36	27 - 30	22 - 24	50 / 50	108.0	8.0	24.0	30	5
52105730	40 x 1,5	36	30 - 33	26 - 28	50 / 50	108.0	8.0	28.0	33	5
52105740	40 x 1,5	36	32 - 35	28 - 30	50 / 50	108.0	8.0	30.0	35	5

SKINDICHT® SHV-M



SKINDICHT® SHV-M

■ Benefits

- Water pressure-tight
- Gentle cable clamping
- Robust
- High strain relief

■ Application range

- Water pressure-tight cable gland with special conical sealing element.
- Pumps
- Floater switches

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Note

- Counter nut to be used SKINDICHT® SM-M
- Suitable accessories SKINDICHT® SHV seal-ing cones

■ Technical data



Caution
Installation dimensions
see Appendix T21



Material
Body: Nickel plated brass
Cone Seal: CR
O-ring: NBR



Degree of protection
IP 68 - 10 bar



Range of temperature
-20°C up to +80°C

Part number	Part designation / size	Clamping range ØF mm	Function thread PG	SW1 / SW2 mm	Overall length C mm	Thread length D mm	Clear opening seal	Pieces / PU
SKINDICHT® SHV-M								
52105270	12 x 1,5	3 - 4,8	7	14 / 14	26,0	5,0	5	50
52105280	16 x 1,5	4,5 - 5,8	9	18 / 17	26,5	5,0	6	50
52105290	16 x 1,5	4,5 - 6,8	9	18 / 17	26,5	5,0	7	50
52105300	20 x 1,5	6 - 6,8	11	22 / 20	31,0	6,0	7	25
52105310	20 x 1,5	6,5 - 8,8	11	22 / 20	31,0	6,0	9	25
52105320	20 x 1,5	6,5 - 8,8	13,5	22 / 22	32,5	6,0	9	25
52105330	20 x 1,5	9 - 10,8	13,5	22 / 22	32,5	6,0	11	25
52105340	20 x 1,5	9 - 10,8	16	24 / 24	34,5	6,0	11	25
52105350	20 x 1,5	9,5 - 12,8	16	24 / 24	34,5	6,0	13	25
52105360	20 x 1,5	13 - 14,8	16	24 / 24	34,5	6,0	15	25
52105370	25 x 1,5	13,5 - 15,8	21	30 / 30	38,5	7,0	16	25
52105380	25 x 1,5	15 - 17,8	21	30 / 30	38,5	7,0	18	25
52105390	25 x 1,5	17,5 - 19,8	21	30 / 30	38,5	7,0	20	25
52105400	32 x 1,5	17,5 - 21,8	29	40 / 40	42,5	8,0	22	10
52105410	32 x 1,5	19 - 23,8	29	40 / 40	42,5	8,0	24	10
52105420	32 x 1,5	23 - 25,8	29	40 / 40	42,5	8,0	26	10

SKINDICHT® SHV-M-VITON®

SKINDICHT® SHV-M-VITON®
Benefits

- For high temperatures
- Resistant against oils, solvents, acids and chemicals
- Water pressure-tight
- High strain relief
- Robust

Application range

- Water pressure-tight, high temperature resistant cable gland with special conical VITON® sealing element.
- Brickyard
- Sewage treatment plants
- Car wash site

Approvals (Norm references)

Design

- 1 fitting
- 2 washers
- 3 Viton® sealing cone
- 4 brass cone
- 5 compression screw

Note

- Counter nut to be used SKINDICHT® SM-M

Technical data

Caution

Installation dimensions
see Appendix T21


Material

Body: Nickel plated brass
Cone seal: FKM
O-ring: FKM


Degree of protection

IP 68 - 10 bar

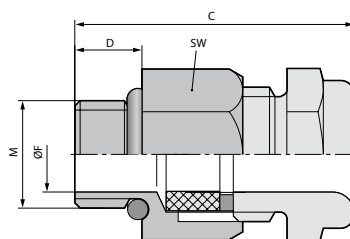

Range of temperature

-15 °C up to +200 °C

Part number	Part designation / size	Clamping range ØF mm	Function thread PG	SW mm	Overall length C mm	Thread length D mm	Clear opening F mm	Pieces / PU
SKINDICHT® SHV-M-VITON®								
52105430	12 x 1,5	3,8 - 4,8	7	14 / 14	26,0	5,0	5	50
52105440	16 x 1,5	4,8 - 5,8	9	18 / 17	27,5	5,0	6	50
52105450	16 x 1,5	5,8 - 6,8	9	18 / 17	27,5	5,0	7	50
52105460	20 x 1,5	5,8 - 6,8	11	22 / 20	31,0	6,0	7	25
52105470	20 x 1,5	6,8 - 8,8	11	22 / 20	31,0	6,0	9	25
52105480	20 x 1,5	8,5 - 10,8	13,5	22 / 22	32,5	6,0	11	25
52105490	20 x 1,5	6,8 - 8,8	13,5	22 / 22	32,5	6,0	9	25
52105500	20 x 1,5	10,8 - 12,8	16	24 / 24	34,5	6,0	13	25
52105510	20 x 1,5	13,8 - 14,8	16	24 / 24	34,5	6,0	15	25
52105520	25 x 1,5	15,8 - 17,8	21	30 / 30	38,0	7,0	18	25
52105530	25 x 1,5	17,5 - 19,8	21	30 / 30	38,0	7,0	20	25
52105540	32 x 1,5	19,5 - 21,8	29	40 / 40	44,5	8,0	22	10

Viton® is a registered trademark of DuPont de Nemours

SKINDICHT® MINI



SKINDICHT® MINI

■ Benefits

- High degree of protection
- For smallest conductor sizes
- For small assembly space
- Gentle cable clamping
- High packaging density

■ Application range

- For use wherever there is limited assembly space.
- Sensors
- Measuring technology

■ Approvals (Norm references)



■ Technical data



Material

Body: Nickel plated brass
Seal: CR / NBR



Degree of protection

IP 68

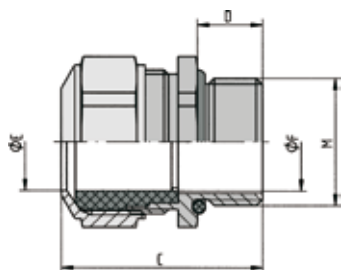


Range of temperature

-20°C up to +100°C

Part number	Part designation / size	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINDICHT® MINI						
52001860	MINI 6 x 1	2 - 3	9	19.5	5.0	50
52001880	MINI 8 x 1	3,5 - 5,5	11	20.5	5.0	50

SKINDICHT® CN-M



SKINDICHT® CN-M

Benefits

- For high temperatures
- Resistant against oils, solvents, acids and chemicals
- Sea water resistant
- For high mechanical stress
- Increased corrosion resistance

Application range

- Chromium nickel steel cable gland with VITON® seal, specially designed for use under tough conditions.
- Pharmaceutical, petrochemical industry
- Off shore
- Wind energy systems
- Brickyard

Approvals (Norm references)



Design

- Metric connection thread acc. to EN 50262

Note

- Suitable counter nut SKINDICHT® SM CrNi M please see chart

Technical data



Caution
Installation dimensions
see Appendix T21



Material
Body: Chrome-nickel steel in accordance with DIN, material no. 1.4305
Seal: FPM
O-ring: FPM



Degree of protection
IP 68



Range of temperature
-25 °C up to +200 °C

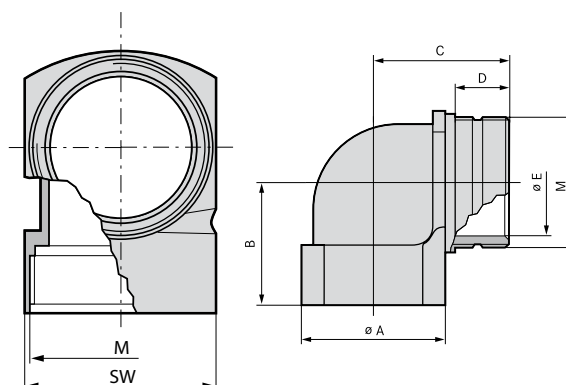
Part number	Part designation / size	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINDICHT® CN-M						
52032580	12 x 1,5/1	3,5 - 5	17	27,0	10,0	5
52032590	12 x 1,5/2	5 - 6,5	17	27,0	10,0	5
52032600	12 x 1,5/3	6,5 - 8	17	27,0	10,0	5
52032610	16 x 1,5	8 - 10,5	18	30,0	10,0	5
52032620	20 x 1,5	11 - 15	24	31,0	10,0	5
52032630	25 x 1,5	16 - 20,5	30	36,0	11,0	5
52032640	32 x 1,5	21 - 25,5	36	41,0	13,0	5
52032650	40 x 1,5	28,5 - 33	46	44,0	13,0	1
52032660	50 x 1,5	37 - 42	55	48,0	14,0	1
52032670	63 x 1,5	46 - 52	70	51,0	14,0	1
SKINDICHT® SM CrNi M counter nuts						
52032585	12 x 1,5	-	17	3,0	3,0	10
52032615	16 x 1,5	-	19	3,0	3,0	10
52032625	20 x 1,5	-	24	3,5	3,5	10
52032635	25 x 1,5	-	30	3,5	3,5	10
52032645	32 x 1,5	-	36	4,5	4,5	10
52032655	40 x 1,5	-	46	4,5	4,5	10
52032665	50 x 1,5	-	55	5,5	5,5	10
52032675	63 x 1,5	-	70	6,0	6,0	10

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SKINDICHT® KW-M



SKINDICHT® KW-M



■ Benefits

- Saving space
- Decrease of installation height

■ Application range

- Angle glands are used wherever cables have to run in parallel to the housing wall.
- Light and sound applications
- Switch cabinet building

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Note

- For suitable O-rings, see SKINDICHT® O-ring Perbunan®
- SKINDICHT® KW-M can be combined with any cable gland, in particular with SKINTOP® ST-M.
- Counter nut to be used SKINTOP® GMP-GL-M

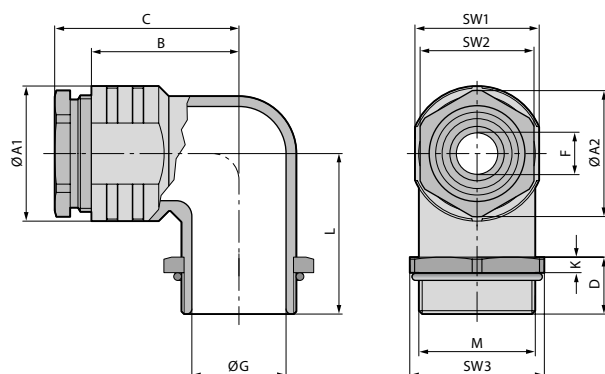
■ Technical data

RAL	Colour delivered
	RAL 7001 silver grey
Material	
	Polyamide, glass fibre reinforced
IP	Degree of protection
	IP 55
0-11	Range of temperature
	-20°C up to +80°C

Part number	Part designation / size	A mm	B in mm	ØE mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINDICHT® KW-M								
52106210	16 x 1,5	19.0	21.5	11	19	24.0	13.0	25
52106220	20 x 1,5	25.0	24.5	15	25	29.5	15.0	25
52106230	25 x 1,5	30.0	28.0	20	30	33.5	16.0	25
52106240	32 x 1,5	36.0	31.5	26	36	38.0	17.0	10

Perbunan® is a registered trademark of BAYER AG

SKINDICHT® RWV-M



SKINDICHT® RWV-M

■ Benefits

- Strain relief
- Sealed by incised sealing ring
- Corrosion resistant
- Decrease of installation height
- Sea water resistant

■ Application range

- Angle glands are used wherever cables have to run in parallel to the housing wall.
- Drives
- Machine and apparatus construction
- Plant engineering
- Light and sound applications

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Note

- Counter nut to be used SKINDICHT® SM-M

■ Technical data



Material
Body: Zinc die casting, nickel plated
Compression screw / hexagon nut: nickel plated brass
Incised sealing ring: CR/NBR
O-ring: NBR



Degree of protection
IP 55



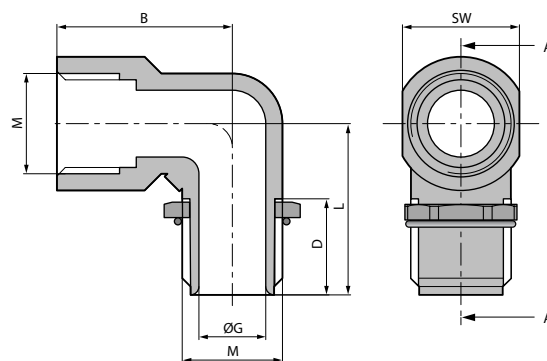
Range of temperature
-20 °C up to +100 °C

Part number	Part designation / size	Clamping range ØF mm	L	SW1	Ø A1	SW2	Ø A2	Ø G	Height mm	Overall length C mm	Thread length D mm	SW3	Pieces / PU
SKINDICHT® RWV-M													
52107800	12 x 1,5	5	20.5	14	16	12	13.2	8	5	26.1	11.5	17	25
52107810	16 x 1,5	9 - 3	23.5	18	20	16	17.6	12	5	28.6	11.5	22	25
52107820	20 x 1,5	13 - 4	28.5	22	24	20	22.2	15	5	35.1	12.5	27	25
52107830	25 x 1,5	17.5 - 8.5	31.0	27	29	25	27.5	20	5	38.1	13.5	32	10
52107840	32 x 1,5	25 - 16	36.0	34	36	32	35.2	27	5	44.6	13.5	41	10
52107850	40 x 1,5	32 - 23	45.0	42	45	40	43.5	35	5	53.1	15.5	46	5

SKINDICHT® RWV-M without E+D



SKINDICHT® RWV-M without E+D



■ Benefits

- Combination with different conduit glands possible
- Saving space
- Decrease of installation height
- Cables runs parallel to the housing wall
- Corrosion resistant

■ Application range

- Angle glands are used wherever cables have to run in parallel to the housing wall.
- Drives
- Machine and apparatus construction
- Plant engineering
- Light and sound applications

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Note

- The protection class depends on the special gland with which it is combined, but in the standard version is at least IP 55
- Counter nut to be used SKINDICHT® SM-M

■ Technical data



Material

Body: Zinc die casting
Hexagon nut: Nickel plated brass
O-ring: NBR



Degree of protection

IP 55



Range of temperature

-20°C up to +100°C

Part number	Part designation / size	B in mm	Thread length D mm	K	L	SW1	Ø A1	SW2	Ø A2	Pieces / PU
SKINDICHT® RWV-M without E+D										
52107801	12 x 1,5	21.0	12	5	21.0	14	16	17	13.2	25
52107811	16 x 1,5	23.0	12	5	24.0	18	20	22	17.6	25
52107821	20 x 1,5	28.5	13	5	29.0	22	24	27	22.2	25
52107831	25 x 1,5	30.0	14	5	31.0	27	29	32	27.5	10
52107841	32 x 1,5	36.5	14	5	36.0	34	33	41	35.2	10
52107851	40 x 1,5	43.0	16	5	45.0	42	43	46	43.5	5

SKINDICHT® SE-M



■ Benefits

- Sealed by incised sealing ring
- Corrosion resistant
- Easy to assemble/install
- Completely safe cable entry
- Low overall height

■ Application range

- Where high mechanical stress is given
- Everywhere where no connection thread is given

■ Approvals (Norm references)



■ Design

- M20x1,5 - M25x1,5 with 2 screw holes
- M32x1,5 with 4 screw holes
- With incised sealing ring

■ Technical data



Material

Body: Zinc die casting
Compression screw: Nickel plated brass
Seal: CR/NBR
O-ring: NBR



Degree of protection

IP 55



Range of temperature

-20°C up to +80°C

Part number	Part designation / size	Incised sealing ring ØF, mm	Overall height mm	SW mm	Overall length C mm	Overall width mm	Pieces / PU
SKINDICHT® SE-M							
52108000	M 20 x 1,5	4/7/10/13	31.0	20	49.2	42	10
52108010	M 25 x 1,5	8,5/11,5/14,5/17,5	40.0	25	68.2	60	5
52108020	M 32 x 1,5	16/19/22/25	51.5	32	84.2	66	1

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SKINDICHT® SE-M without E+D



SKINDICHT® SE-M without E+D

■ Benefits

- Combination with different conduit glands possible
- Corrosion resistant
- Easy to assemble/install
- Completely safe cable entry
- Low overall height

■ Application range

- Safe flange angle gland can be combined with all glands (including O-ring) e.g. strain relief, bending protection and conduit glands
- Where high mechanical stress is given
- Everywhere where no connection thread is given

■ Approvals (Norm references)



■ Design

- M20x1,5 - M25x1,5 with 2 screw holes
- M32x1,5 with 4 screw holes

■ Note

- The protection class depends on the special gland with which it is combined, but in the standard version is at least IP 55

■ Technical data

	Material
	Body: Zinc die casting O-ring: NBR
	Degree of protection
	IP 55
	Range of temperature
	-20 °C up to +100 °C

Part number	Part designation / size	Height mm	Overall width mm	Length in mm	PU
SKINDICHT® SE-M without E+D					
52108001	20 x 1,5	31	42	42.0	10
52108011	25 x 1,5	40	60	60.0	5
52108021	32 x 1,5	51.5	66	76.0	1

SKINDICHT® SE-M 220/320



■ Benefits

- Depending on the type the combination with different conduit glands possible
- Low overall height
- High stability
- Two or three separate cable outlets

■ Application range

- Where high mechanical stress is given
- Everywhere where no connection thread is given

■ Approvals (Norm references)



■ Note

- Type SKINDICHT® SE-M 220/320 without E+D is without incised sealing ring and without compression screw
- Type SKINDICHT® SE-M 220/320 without E+D without E+D can be combined with all cable glands (incl. O-ring) as e.g. sealing, strain-relieving, bending, conduit-connecting or earthing glands
- The protection class depends on the special gland with which it is combined, but in the standard version is at least IP 55

■ Technical data



Material

Body: Zinc die casting
Compression screw: Nickel plated brass
Incised sealing ring: CR/NBR
Flat sealing ring: SBR



Degree of protection

IP 55



Range of temperature

-20°C up to +80°C

Part number	Part designation / size	Incised sealing ring ØF, mm	Pieces / PU
SKINDICHT® SE-M 220/320			
52108040	2 x M20 x 1,5	2 x 4/7/10/13	1
52108050	3 x M20 x 1,5	3 x 4/7/10/13	1
SKINDICHT® SE-M 220/320 ohne E+D			
52108041	2 x M20 x 1,5		1
52108051	3 x M20 x 1,5		1

New

SKINDICHT® SM-M

■ Application range

- Needed wherever a gland has to be counter-sunk or thin walled housings only allow through holes.

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262



SKINDICHT® SM-M

■ Technical data



Material
Nickel-plated brass

Part number	Part designation / size	Thickness in mm	SW mm	Outer Ø mm	Pieces / PU
SKINDICHT® SM-M					
52103000	12 x 1,5	3.0	15	16.5	100
52103010	16 x 1,5	3.0	19	20.9	100
52103020	20 x 1,5	3.5	24	26.4	100
52103030	25 x 1,5	4.0	30	33.0	100
52103040	32 x 1,5	4.0	36	39.6	100
52103050	40 x 1,5	5.0	46	50.6	50
52103060	50 x 1,5	5.0	60	66.0	50
52103070	63 x 1,5	5.0	70	77.0	25
52103071	75 x 1,5	8.0	85	95.0	5
52103072	90 x 2	10.0	102	114.0	1
52103073	110 x 2	12.0	124	135.0	1

New

SKINDICHT® SM-PE-M



SKINDICHT® SM-PE-M

■ Benefits

- Cutting edges cut through the insulating layer, thus guaranteeing an optimum EMC contact
- Suitable for metric glands used in earthing and EMC applications

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Technical data



Material
Nickel-plated brass

■ Application range

- For lacquered, anodised and powder coated housings.

Part number	Part designation / size	Thickness in mm	SW mm	Outer Ø mm	Pieces / PU
SKINDICHT® SM-PE-M					
52103300	12 x 1,5	3.5	15	16.5	100
52103310	16 x 1,5	3.5	19	20.9	100
52103320	20 x 1,5	3.7	24	26.4	100
52103330	25 x 1,5	4.2	30	33.0	50
52103340	32 x 1,5	4.7	36	39.6	50
52103350	40 x 1,5	5.5	46	50.6	25
52103360	50 x 1,5	5.5	60	66.0	10
52103370	63 x 1,5	7.0	70	77.0	10
52103371	75 x 1,5	8.0	85	95.0	5
52103372	90 x 2	10.0	102	114.0	1
52103373	110 x 2	12.0	124	135.0	1

SKINDICHT® BLK-M / SKINDICHT® BLK-GL-M



SKINDICHT® BLK-M

SKINDICHT® BLK-GL-M

■ Benefits

SKINDICHT® BLK-M

- Used wherever threads previously cut must be closed
- Economic solution

SKINDICHT® BLK-GL-M

- Used wherever threads previously cut must be closed
- High stability due to glas fibre reinforcement

■ Application range

- Switch cabinet building
- Junction box
- Connection box

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Technical data



On request
SKINDICHT® BLK-M
BLK-M with O-ring,
black RAL 9005



Colour delivered
SKINDICHT® BLK-M
RAL 7035 light grey
SKINDICHT® BLK-GL-M
RAL 7001 silver grey
RAL 7035 light grey
RAL 9005 black



Material
SKINDICHT® BLK-M
Impact proof polystyrene
SKINDICHT® BLK-GL-M
Polyamide, glass fibre reinforced



Degree of protection
IP 54
IP 68 with O-ring



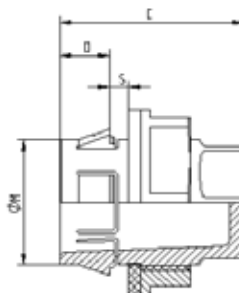
Range of temperature
SKINDICHT® BLK-M
-25°C up to +60°C
SKINDICHT® BLK-GL-M
-40°C up to +100°C

Part number	Part designation / size	Thread length D mm	Pieces / PU
SKINDICHT® BLK-M			
52006600	12 x 1,5	6.0	100
52006610	16 x 1,5	6.0	100
52006620	20 x 1,5	6.0	100
52006630	25 x 1,5	8.0	100
52006640	32 x 1,5	8.0	50
52006650	40 x 1,5	8.0	25
52006660	50 x 1,5	10.0	25
52006670	63 x 1,5	12.0	25
SKINDICHT® BLK-GL-M silver-grey			
52006101	12 x 1,5	6.0	100
52006111	16 x 1,5	6.0	100
52006121	20 x 1,5	6.0	100
52006131	25 x 1,5	8.0	100
52006141	32 x 1,5	8.0	50
52006151	40 x 1,5	8.0	25
52006161	50 x 1,5	10.0	25
52006171	63 x 1,5	12.0	25
SKINDICHT® BLK-GL-M light grey			
52006100	12 x 1,5	6.0	100
52006110	16 x 1,5	6.0	100
52006120	20 x 1,5	6.0	100
52006130	25 x 1,5	8.0	100
52006140	32 x 1,5	8.0	50
52006150	40 x 1,5	8.0	25
52006160	50 x 1,5	10.0	25
52006170	63 x 1,5	12.0	25
SKINDICHT® BLK-GL-M black			
52006103	12 x 1,5	6.0	100
52006113	16 x 1,5	6.0	100
52006123	20 x 1,5	6.0	100
52006133	25 x 1,5	8.0	100
52006143	32 x 1,5	8.0	50
52006153	40 x 1,5	8.0	25
52006163	50 x 1,5	10.0	25
52006173	63 x 1,5	12.0	25
SKINDICHT® BLK-GL-M silver-grey mounted with O-ring			
52006109	12 x 1,5	6.0	100
52006119	16 x 1,5	6.0	100
52006129	20 x 1,5	6.0	100
52006139	25 x 1,5	8.0	100
52006149	32 x 1,5	8.0	50
52006159	40 x 1,5	8.0	25
52006169	50 x 1,5	10.0	25
52006179	63 x 1,5	12.0	25

Part number	Part designation / size	Thread length D mm	Pieces / PU
SKINDICHT® BLK-GL-M light grey mounted with O-ring			
52006107	12 x 1,5	6.0	100
52006117	16 x 1,5	6.0	100
52006127	20 x 1,5	6.0	100
52006137	25 x 1,5	8.0	100
52006147	32 x 1,5	8.0	50
52006157	40 x 1,5	8.0	25
52006167	50 x 1,5	10.0	25
52006177	63 x 1,5	12.0	25
SKINDICHT® BLK-GL-M black mounted with O-ring			
52006106	12 x 1,5	6.0	100
52006116	16 x 1,5	6.0	100
52006126	20 x 1,5	6.0	100
52006136	25 x 1,5	8.0	100
52006146	32 x 1,5	8.0	50
52006156	40 x 1,5	8.0	25
52006166	50 x 1,5	10.0	25
52006176	63 x 1,5	12.0	25

New

SKINTOP® CLICK BLK



SKINTOP® CLICK BLK

Benefits

- Up to 70% time saving due to innovative CLICK system
- Simple, free assembly in any position
- Fewer parts, counter nut no longer needed
- No thread required
- Captive

Application range

- Blind plug with innovative CLICK system for fast installation in hardly accessible places. Perfect solution wherever threads previously cut must be closed.
- Switch cabinet building
- Measurement, control and electrical applications
- Automation technology
- Plant, apparatus construction

Approvals (Norm references)



Scope of delivery

- Disassembly tool contained in the delivery scope

Technical data

RAL	Colour delivered RAL 7035 light grey
Material	Body: special polyamide Seal: special elastomer
IP	Degree of protection IP 68 - 5 bar
0 +100	Range of temperature -20 °C up to +100 °C

Part number	Part designation / size	M (hole mm)	SW1 / SW2 mm	Overall length C mm	Thread length D mm	S (wall thickness mm)	Pieces / PU
SKINTOP® CLICK BLK light grey							
52109013	CLICK BLK 16	16,3 (-0,2)	14 / 22	28,5	8.0	1.0 - 4.0	50
52109014	CLICK BLK 20	20,3 (-0,2)	18 / 27	29,5	8.0	1.0 - 4.0	25
52109015	CLICK BLK 25	25,3 (-0,2)	22 / 14	30,5	8.0	1.0 - 4.0	25

SKINDICHT® BL-M



SKINDICHT® BL-M

■ Benefits

- Used wherever threads previously cut must be closed
- Assembling with screw driver

■ Application range

- Machine and apparatus construction
- Drives

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Technical data



On request

Fitted with FKM O-ring



Material

Blind plugs: Nickel plated brass

O-ring: NBR



Degree of protection

IP 54

IP 68 with O-ring



Range of temperature

With O-ring -30°C up to +100°C

Without O-ring -60°C up to +200°C

Part number	Part designation / size	Outer Ø mm	Pieces / PU
SKINDICHT® BL-M			
52103100	12 x 1,5	14.0	100
52103110	16 x 1,5	18.0	100
52103120	20 x 1,5	22.0	100
52103130	25 x 1,5	28.0	100
52103140	32 x 1,5	35.0	50
52103150	40 x 1,5	44.0	25
52103160	50 x 1,5	54.0	10
52103170	63 x 1,5	70.0	10
SKINDICHT® BL-M with O-ring			
52103105	12 x 1,5	14.0	100
52103115	16 x 1,5	18.0	100
52103125	20 x 1,5	22.0	100
52103135	25 x 1,5	28.0	100
52103145	32 x 1,5	35.0	50
52103155	40 x 1,5	44.0	25
52103165	50 x 1,5	54.0	10
52103175	63 x 1,5	70.0	10
52103190	75 x 1,5	80.0	1

SKINDICHT® BL-M hexagonal

Benefits

- Used wherever threads previously cut must be closed
- High degree of protection

Application range

- Machine and apparatus construction
- Drives

Approvals (Norm references)



Design

- Metric connection thread acc. to EN 50262

Note

- Blind plug chromium nickel steel on request

Technical data



On request

Viton® O-ring
-20°C up to +200°C



Material

Body: Nickel plated brass
O-Ring: NBR



Degree of protection

IP 68



Range of temperature

-30°C up to +100°C



Part number	Part designation / size	SW mm	Outer Ø mm	Pieces / PU
SKINDICHT® BL-M hexagon				
52103405	12 x 1,5	16	17.8	50
52103415	16 x 1,5	20	22.0	50
52103425	20 x 1,5	24	26.4	50
52103435	25 x 1,5	29	31.9	50
52103445	32 x 1,5	36	39.6	25
52103455	40 x 1,5	45	49.5	25
52103465	50 x 1,5	54	59.0	10
52103475	63 x 1,5	67	73.5	10

Viton® is a registered trademark of DuPont de Nemours

Benefits

- High degree of protection
- Dynamic strain stability

Application range

- Equipment group II / Category 2G+1D
- Devices, machines and apparatus
- Mobile offshore and marine applications
- Chemical and petrochemical industry

Approvals (Norm references)



Design

- Metric connection thread acc. to EN 50262

Technical data



Material

Body: Nickel plated brass
O-Ring: NBR



Degree of protection

IP 68



Range of temperature

-30°C up to +90°C



Part number	Part designation / size	SW mm	Thread length D mm	Outer Ø mm	PU
SKINDICHT® BL-M ATEX					
52103103	12 x 1,5	16	5.0	17.8	50
52103113	16 x 1,5	20	5.0	22.0	50
52103123	20 x 1,5	24	6.0	26.4	50
52103133	25 x 1,5	29	7.0	31.9	50
52103143	32 x 1,5	36	8.0	39.6	25
52103153	40 x 1,5	45	8.0	49.5	25
52103163	50 x 1,5	54	9.0	59.0	10
52103173	63 x 1,5	67	10.0	73.5	10

SKINDICHT® KU-M



■ Benefits

- Enables the use of cable glands with smaller connection threads than the existing threaded holes

■ Application range

- Machines
- Devices
- Housings

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Technical data



Colour delivered
RAL 7035 light grey



Material
Polyamide, glass fibre reinforced



Range of temperature
-40°C up to +100°C

Part number	Thread, male M1	Thread, female M2	SW mm	Pieces / PU
SKINDICHT® KU-M light grey				
52104505	16 x 1,5	12 x 1,5	22	100
52104470	20 x 1,5	12 x 1,5	24	100
52104504	20 x 1,5	16 x 1,5	24	100
52104472	25 x 1,5	12 x 1,5	29	100
52104473	25 x 1,5	16 x 1,5	29	100
52104474	25 x 1,5	20 x 1,5	29	100
52104475	32 x 1,5	12 x 1,5	36	50
52104476	32 x 1,5	16 x 1,5	36	50
52104477	32 x 1,5	20 x 1,5	36	50
52104478	32 x 1,5	25 x 1,5	36	50
52104479	40 x 1,5	16 x 1,5	46	50
52104480	40 x 1,5	20 x 1,5	46	50
52104481	40 x 1,5	25 x 1,5	46	25
52104482	40 x 1,5	32 x 1,5	46	25
52104483	50 x 1,5	20 x 1,5	55	5
52104484	50 x 1,5	25 x 1,5	55	5
52104485	50 x 1,5	32 x 1,5	55	5
52104486	50 x 1,5	40 x 1,5	55	5
52104487	63 x 1,5	25 x 1,5	68	5
52104488	63 x 1,5	32 x 1,5	68	5
52104489	63 x 1,5	40 x 1,5	68	5
52104469	63 x 1,5	50 x 1,5	68	5

SKINDICHT® MR-M



■ Benefits

- Enables the use of cable glands with smaller connection threads than the existing threaded holes

■ Application range

- Machines
- Devices
- Housings

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Technical data



On request
Also available with O-ring installed



Material
Nickel-plated brass



Range of temperature
-60°C up to +200°C

Part number	Thread, male M1	Thread, female M2	Pieces / PU
SKINDICHT® MR-M			
52104310	16 x 1,5	12 x 1,5	100
52104311	20 x 1,5	12 x 1,5	100
52104312	20 x 1,5	16 x 1,5	100
52104313	25 x 1,5	16 x 1,5	50
52104314	25 x 1,5	20 x 1,5	50
52104315	32 x 1,5	20 x 1,5	50
52104316	32 x 1,5	25 x 1,5	50
52104317	40 x 1,5	25 x 1,5	25
52104318	40 x 1,5	32 x 1,5	25
52104319	50 x 1,5	32 x 1,5	25
52104320	50 x 1,5	40 x 1,5	10
52104321	63 x 1,5	40 x 1,5	10
52104322	63 x 1,5	50 x 1,5	10
52006575	72 x 2	63 x 1,5	1

SKINDICHT® MR-M hexagonal

Benefits

- Enables the use of cable glands with smaller connection threads than the existing threaded holes
- With guide notch for O-ring
- Assembling with wrench

Application range

- Machines
- Devices
- Housings

Approvals (Norm references)



Design

- Metric connection thread acc. to EN 50262

Technical data



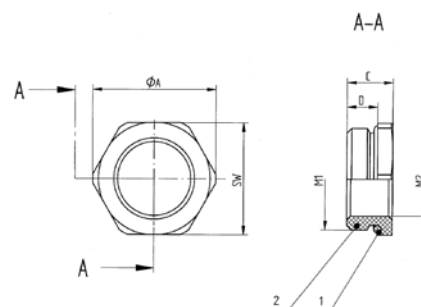
On request
Viton® O-ring
-20°C up to +200°C



Material
Body: Nickel plated brass
O-Ring: NBR



Range of temperature
-30°C up to +100°C



Part number	Thread, male M1	Thread, female M2	SW mm	ØA mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINDICHT® MR-M hexagon							
52101965	16 x 1,5	12 x 1,5	18	20.2	8.5	5.5	50
52101966	20 x 1,5	16 x 1,5	22	24.4	9.0	6.0	50
52101967	25 x 1,5	16 x 1,5	28	31.2	10.0	6.5	50
52101968	25 x 1,5	20 x 1,5	28	31.2	10.0	6.5	50
52101969	32 x 1,5	16 x 1,5	36	40.0	11.5	8.0	25
52101972	32 x 1,5	20 x 1,5	36	40.0	11.5	8.0	25
52101973	32 x 1,5	25 x 1,5	36	40.0	11.5	8.0	25
52101974	40 x 1,5	25 x 1,5	43	47.5	12.5	8.5	10
52101975	40 x 1,5	32 x 1,5	43	47.5	12.5	8.5	10
52101976	50 x 1,5	40 x 1,5	54	58.0	14.0	10.0	5
52101977	63 x 1,5	50 x 1,5	67	74.0	14.0	9.5	5
52101979	75 x 1,5	63 x 1,5	80	90.0	17.0	11.0	1
SKINDICHT® MR-M brass blank, hexagon							
52006572	80 x 2	63 x 1,5	85	93.5	23.0	15.0	1
SKINDICHT® MR-M brass blank, without hexagon							
52006579	80 x 2	75 x 1,5		86.0	19.0	12.0	1
SKINDICHT® MR-M nickel plated brass, without hexagon							
52006575	72 x 2	63 x 1,5		78.0	19.0	12.0	1

Viton® is a registered trademark of DuPont de Nemours

SKINDICHT® MR-M ATEX

Benefits

- Enables the use of cable glands with smaller connection threads than the existing threaded holes
- With guide notch for O-ring
- Assembling with wrench

Application range

- Equipment group II / Category 2G+1D
- Devices, machines and apparatus
- Mobile offshore and marine applications
- Chemical and petrochemical industry

Approvals (Norm references)



Design

- Metric connection thread acc. to EN 50262

Technical data



Material
Body: Nickel plated brass
O-Ring: NBR



Range of temperature
-30°C up to +90°C



Part number	Thread, male M1	Thread, female M2	Overall height mm	Thread length D mm	Outer Ø mm	Pieces / PU
SKINDICHT® MR-M ATEX						
52104570	16 x 1,5	12 x 1,5	10.5	5.0	19.0	50
52104571	20 x 1,5	16 x 1,5	13.0	6.0	24.5	50
52104572	25 x 1,5	20 x 1,5	15.0	7.0	30.1	25
52104573	32 x 1,5	25 x 1,5	16.5	8.0	37.2	25
52104574	40 x 1,5	32 x 1,5	16.5	8.0	45.6	10
52104575	50 x 1,5	40 x 1,5	19.5	10.0	55.3	5
52104576	63 x 1,5	50 x 1,5	18.5	8.5	71.3	5

SKINDICHT® EKU-M



■ Benefits

- Enables the use of cable glands with larger connection threads than the existing threaded holes
- Assembling with wrench
- Bearing surface avoids scratchings on the housing while mounting with an wrench

■ Application range

- Machines
- Devices
- Housings

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Technical data



Colour delivered

RAL 7035 light grey



Material

Polyamide, glass fibre reinforced



Range of temperature

-40°C up to +100°C

Part number	Thread, male M1	Thread, female M2	SW mm	Pieces / PU
SKINDICHT® EKU-M				
52100300	12 x 1,5	16 x 1,5	20	100
52100301	16 x 1,5	20 x 1,5	24	100
52100302	20 x 1,5	25 x 1,5	29	100
52100303	25 x 1,5	32 x 1,5	36	50
52100304	32 x 1,5	40 x 1,5	46	25
52100305	40 x 1,5	50 x 1,5	55	10
52100306	50 x 1,5	63 x 1,5	68	10

SKINDICHT® ME-M



■ Benefits

- Enables the use of cable glands with larger connection threads than the existing threaded holes

■ Application range

- Machines
- Devices
- Housings

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Technical data



On request

With O-ring



Material

Nickel-plated brass



Range of temperature

-60°C up to +200°C

Part number	Thread, male M1	Thread, female M2	Pieces / PU
SKINDICHT® ME-M			
52104450	12 x 1,5	16 x 1,5	100
52104452	16 x 1,5	20 x 1,5	100
52104454	20 x 1,5	25 x 1,5	100
52104456	25 x 1,5	32 x 1,5	50
52104458	32 x 1,5	40 x 1,5	50
52104460	40 x 1,5	50 x 1,5	25
52104462	50 x 1,5	63 x 1,5	25
SKINDICHT® ME-M (hexagonal)			
52104463	63 x 1,5	75 x 1,5	25

SKINDICHT® ME-M ATEX

■ Benefits

- Enables the use of cable glands with larger connection threads than the existing threaded holes
- With guide notch for O-ring
- Assembling with wrench

■ Application range

- Equipment group II / Category 2G+1D
- Devices, machines and apparatus
- Mobile offshore and marine applications
- Chemical and petrochemical industry

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Technical data



Colour delivered

RAL 7035 light grey



Material

Body: Nickel plated brass

O-Ring: NBR



Range of temperature

-30°C up to +90°C



Part number	Thread, male M1	Thread, female M2	Overall height mm	SW mm	Thread length, outside mm	Outer Ø mm	PU
SKINDICHT® ME-M ATEX							
52104580	12 x 1,5	16 x 1,5	17.0	18	5	20.0	50
52104581	16 x 1,5	20 x 1,5	20.0	22	6	24.0	50
52104582	20 x 1,5	25 x 1,5	22.5	27	6.5	30.0	50
52104583	25 x 1,5	32 x 1,5	21.5	34	6.5	37.7	25
52104584	32 x 1,5	40 x 1,5	23.0	42	7	46.0	25
52104585	40 x 1,5	50 x 1,5	26.0	54	8	59.0	25
52104586	50 x 1,5	63 x 1,5	32.0	67	9	73.0	10

SKINDICHT® MA-M/PG / SKINDICHT® MA-M/NPT



SKINDICHT® MA-M/PG



SKINDICHT® MA-M/NPT

■ Benefits

SKINDICHT® MA-M/PG

- Allows the use of PG parts in metric threads

SKINDICHT® MA-M/NPT

- Allows the use of NPT parts in metric threads

■ Application range

SKINDICHT® MA-M/PG

- Adapters from a metric outer thread to a PG inner thread.
- Machines
- Devices
- Housings

SKINDICHT® MA-M/NPT

- Adapter from a metric outer thread to an NPT inner thread.
- Machines
- Devices
- Housings

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Technical data



On request
With O-ring



Material
Nickel-plated brass

Part number	Thread, male M1	Thread, female PG	Pieces / PU
SKINDICHT® MA-M / PG			
52104200	16 x 1,5	7	100
52104210	20 x 1,5	9	50
52104220	25 x 1,5	11	50
52104230	25 x 1,5	13.5	50
52104240	25 x 1,5	16	50
52104250	32 x 1,5	16	25
52104260	32 x 1,5	21	25
52104270	40 x 1,5	21	25
52104280	50 x 1,5	29	10
52104290	63 x 1,5	36	10
52104300	63 x 1,5	42	10
SKINDICHT® MA-M / NPT			
54020100	16 x 1,5	0.25	50
54020110	20 x 1,5	0.25	50
54020120	25 x 1,5	0.25	25
54020130	25 x 1,5	0.75	25
54020140	32 x 1,5	0.25	25
54020152	32 x 1,5	1	25
54020153	40 x 1,5	1.25	10

SKINDICHT® ZS-M

■ Benefits

- Allows the use of PG parts in metric threads
- Assembling with wrench

■ Application range

- Hexagonal converter from a metric outer thread to a PG inner thread.
- Machines
- Devices
- Housings

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Note

- SKINDICHT® ZS-M-XL offers a long metric connection thread

■ Technical data



Material
Nickel-plated brass



Part number	Thread, male M1	Thread, female PG	SW mm	Thread length, outside mm	Pieces / PU
SKINDICHT® ZS-M					
52104330	12 x 1,5	7	14	5	100
52104340	16 x 1,5	9	18	5	100
52104010	16 x 1,5	11	20	5	100
52104360	20 x 1,5	11	22	6	100
52104370	20 x 1,5	13.5	22	6	100
52104380	20 x 1,5	16	24	6	50
52104400	25 x 1,5	21	30	7	50
52104410	32 x 1,5	29	40	8	25
52104420	40 x 1,5	36	50	8	10
52104430	50 x 1,5	42	57	9	10
52104440	63 x 1,5	48	66	10	10
SKINDICHT® ZS-M-XL					
52104335	12 x 1,5	7	14	10	100
52104345	16 x 1,5	9	18	10	100
52104365	20 x 1,5	11	22	10	100
52104375	20 x 1,5	13.5	22	10	100
52104385	20 x 1,5	16	24	10	50
52104405	25 x 1,5	21	30	11	50
52104415	32 x 1,5	29	40	13	25
52104425	40 x 1,5	36	50	13	10
52104435	50 x 1,5	42	57	14	10
52104445	63 x 1,5	48	66	14	10

SKINDICHT® ZSE-M



■ Benefits

- Allows the use of PG parts in metric threads
- Assembling with wrench

■ Application range

- Hexagonal converter from a metric outer thread to a PG inner thread.
- Machines
- Devices
- Housings

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Note

- SKINDICHT® ZSE-M-XL offers a long metric connection thread

■ Design

- These converters are used in our cable glands:
- SKINDICHT® SHV-M
- SKINDICHT® SHVE-M
- SKINDICHT® SRE-M
- SKINDICHT® SR-SV-M

■ Technical data



Material

Body: Nickel plated brass

Part number	Thread, male M 1	Thread, female PG	SW mm	Thread length, outside mm	Pieces / PU
SKINDICHT® ZSE-M					
52106000	12 x 1,5	7	14	5	100
52106010	16 x 1,5	9	18	5	100
52106020	20 x 1,5	11	22	6	100
52106030	20 x 1,5	13.5	22	6	100
52106040	20 x 1,5	16	24	6	50
52104050	20 x 1,5	21	30	8	50
52106050	25 x 1,5	21	30	7	50
52106060	32 x 1,5	29	40	8	25
52106070	40 x 1,5	36	50	8	10
52106080	50 x 1,5	42	57	9	10
52106090	63 x 1,5	48	66	10	10
SKINDICHT® ZSE-M-XL					
52106005	12 x 1,5	7	14	10	100
52106015	16 x 1,5	9	18	10	100
52106025	20 x 1,5	11	22	13	100
52106035	20 x 1,5	13.5	22	13	100
52106045	20 x 1,5	16	24	13	50
52106055	25 x 1,5	21	30	13	50
52106065	32 x 1,5	29	40	13	25

Application range

- SKINDICHT® D-M compression screw with thread in accordance with EN 50262.

Technical data

 **Material**
Nickel-plated brass

SKINDICHT® D-M

Approvals (Norm references)


Part number	Part designation / size	SW mm	Pieces / PU
SKINDICHT® D-M			
52100600	12 x 1,5	12	100
52100601	16 x 1,5	16	100
52100602	20 x 1,5	20	100
52100603	25 x 1,5	25	50
52100604	32 x 1,5	32	25
52100605	40 x 1,5	40	25
52100606	50 x 1,5	50	10
52100607	63 x 1,5	65	10

Application range

- For using between compression screw and adapter.

Technical data

 **Material**
Steel, galvanized

SKINDICHT® U-M

Approvals (Norm references)

Note

- Delivery will be in max. possible packing unit, minimum order quantity is one packing unit

Part number	Part designation / size	Outer-Ø x inner-Ø mm	Pieces / PU
SKINDICHT® U-M			
52100610	U-M 12	10.0 x 7.0	300
52100611	U-M 16	14.0 x 10.0	300
52100612	U-M 20	17.9 x 13.9	300
52100613	U-M 25	22.7 x 18.7	200
52100614	U-M 32	29.8 x 26.0	200
52100615	U-M 40	37.8 x 33.3	100
52100616	U-M 50	47.8 x 41.4	100
52100617	U-M 63	60.7 x 53.5	100

SKINDICHT® E-M



■ Benefits

- One seal for several clamping ranges
- Rings can be individually adapted to various cable diameters

■ Application range

- Incised sealing ring for SKINDICHT® cable glands

■ Approvals (Norm references)



■ Note

- Delivery will be in max. possible packing unit, minimum order quantity is one packing unit

■ Technical data

RAL	Colour delivered
	Black
	Material
	CR
	Range of temperature
	-20°C up to +80°C

Part number	Part designation / size	Outer-Ø x holes mm	Thickness in mm	Pieces / PU
SKINDICHT® E-M				
52100620	E-M 12	10.00 x 5	5.0	250
52100621	E-M 16	13.80 x 3/6/9	5.5	250
52100622	E-M 20	17.60 x 4/7/10/13	6.0	250
52100623	E-M 25	22.60 x 8,5/11,5/14,5/17,5	7.5	100
52100624	E-M 32	29.60 x 16/19/22/25	9.5	100
52100625	E-M 40	37.60 x 23/26/29/32	12.0	50
52100626	E-M 50	47.60 x 30/33/36/39	14.0	50
52100627	E-M 63	60.60 x 36/39/42/45	14.0	50

SKINDICHT® O-Ring Perbunan® metric



■ Application range

- For safe sealing of housing against oil, dust and water. For connection thread of a gland or similar parts.

■ Approvals (Norm references)



■ Note

- For optimum sealing of the converter SKINDICHT® ZSE-M12/16/20 x 1.5, we recommend our O-rings with thickness 1.5 mm.
- Delivery will be in max. possible packing unit, minimum order quantity is one packing unit

■ Technical data

RAL	Colour delivered
	Black
	Material
	NBR
	Ozone- and UV-resistant
	Range of temperature
	-30°C up to +100°C

Part number	Part designation / size	Inner Ø in mm	Cable thickness mm	Pieces / PU
SKINDICHT® O-Ring Perbunan®				
53102000	O M 12 x 2,0	9.0	2.0	100
53102001	O M 12 x 1,5	9.0	1.5	100
53102010	O M 16 x 2,0	13.0	2.0	100
53102020	O M 20 x 2,0	17.0	2.0	100
53102021	O M 20 x 1,5	17.0	1.5	100
53102030	O M 25 x 2,0	22.0	2.0	100
53102040	O M 32 x 2,0	28.0	2.0	50
53102050	O M 40 x 2,0	36.0	2.0	50
53102060	O M 50 x 2,0	46.0	2.0	25
53102070	O M 63 x 2,0	57.0	2.0	25

Perbunan® is a registered trademark of BAYER AG

SKINDICHT® O-Ring VITON® metric

■ Application range

- For safe sealing of housing. Protection against oils, acids, chemicals and water on the connection thread of a gland or similar parts under extreme conditions.

■ Approvals (Norm references)



■ Note

- Delivery will be in max. possible packing unit, minimum order quantity is one packing unit

■ Technical data

	Colour delivered
	Green
	Material
	FKM
	Range of temperature
	-20°C up to +200°C



Part number	Part designation / size	Inner Ø in mm	Cable thickness mm	Pieces / PU
SKINDICHT® O-ring VITON® metric				
52122000	OV M 12 x 2,0	9.0	2.0	100
52122001	OV M 12 x 1,5	9.0	1.5	100
52122010	OV M 16 x 2,0	13.0	2.0	100
52122020	OV M 20 x 2,0	17.0	2.0	100
52122021	OV M 20 x 1,5	17.0	1.5	100
52122030	OV M 25 x 2,0	22.0	2.0	100
52122040	OV M 32 x 2,0	28.0	2.0	50
52122050	OV M 40 x 2,0	36.0	2.0	50
52122060	OV M 50 x 2,0	46.0	2.0	25
52122070	OV M 63 x 2,0	57.0	2.0	25

Viton® is a registered trademark of DuPont de Nemours

■ Benefits

- Resistant against oil, water, alkaline solutions, acids, solvents...
- For use with foodstuffs

■ Application range

- PTFE sealing disks for SKINTOP® and SKINDICHT® cable glands

■ Approvals (Norm references)



■ Note

- Delivery will be in max. possible packing unit, minimum order quantity is one packing unit

■ Technical data

	Colour delivered
	White
	Material
	PTFE
	Range of temperature
	-120°C up to +250°C short term up to +300°C



Part number	Part designation / size	Inner Ø in mm	Thickness in mm	Outer Ø mm	Pieces / PU
SKINDICHT® JT PTFE					
53801030	JT M 12	12.1	2.0	16.6	100
53801040	JT M 16	16.1	2.0	21.1	100
53801050	JT M 20	20.1	2.0	27.5	100
53801060	JT M 25	25.1	3.0	33.4	50
53801070	JT M 32	32.1	3.0	40.3	50
53801080	JT M 40	40.2	3.0	51.5	25
53801090	JT M 50	50.2	3.0	61.6	25
53801100	JT M 63	63.2	3.0	73.9	25

SKINDICHT® WN-M



■ Benefits

- Pierceable elastic plastic membrane

■ Application range

- Simple cable entry wherever no strain relief is required.

■ Approvals (Norm references)



■ Design

- Metric connection thread acc. to EN 50262

■ Technical data

RAL Colour delivered
RAL 7035 light grey

Material
PE

IP Degree of protection
IP 54

Part number	Part designation / size	Opening mm	SW mm	Thread length D mm	Outer Ø mm	Pieces / PU
SKINDICHT® WN-M						
52020513	16 x 1,5	5 - 10	15	10.0	20.0	200
52020523	20 x 1,5	8 - 13.5	19	12.0	24.0	200
52020533	25 x 1,5	9 - 16	24	12.0	28.0	100
52020543	32 x 1,5	11 - 22	30	14.0	37.0	50
52020553	40 x 1,5	17 - 34	37	16.0	45.0	50
52020563	50 x 1,5	22 - 35	46	18.0	55.5	20
52020573	63 x 1,5	24 - 43	56	20.0	68.5	10

SKINDICHT® DTN



■ Benefits

- Can be used as multiple-duct sleeve
- Strain relief

■ Application range

- Grommets for cables from 4 to 32 mm cable diameter.

■ Approvals (Norm references)



■ Technical data

RAL Colour delivered
Black

Material
CR

Range of temperature
-30°C up to +100°C

Part number	Part designation / size	Clamping range ØF mm	Metal thickness mm	Hole in housing Ø mm	Sleeve inner-Ø mm	Pieces / PU
SKINDICHT® DTN						
52105020	DTN 1	4 - 9	2.5	16	9	50
52105030	DTN 2	7 - 12	2.5	19	12	50
52105040	DTN 3	12 - 17.5	2.5	25	18	50
52105050	DTN 4	18 - 23	2.5	32	25	25
52105060	DTN 5	25 - 29	3.0	38	32	25

SKINDICHT® LA



■ Benefits

- Protection of sharp or angular housing walls
- Easy assembly

■ Application range

- Housings
- Switch cabinet building

■ Approvals (Norm references)



■ Note

- Simply push the protective sleeve into the hole until the groove engages.

■ Technical data

RAL Colour delivered
Black

Material
CR

Range of temperature
-30°C up to +90°C

Part number	Part designation / size	Metal thickness mm	Sleeve outer-Ø mm	Hole in housing Ø mm	Sleeve inner-Ø mm	Pieces / PU
SKINDICHT® LA						
61713520	LA 3	1.5 - 2.0	10	7	3	100
61713530	LA 4	1.5 - 2.0	11	8	4	100
61713540	LA 5	1.5 - 2.0	11	7	5	100
61713550	LA 6	1.5 - 2.0	14	9	6	100
61713560	LA 7	1.5 - 2.0	16	12	7	100
61713570	LA 8	1.5 - 2.0	15	11	8	100
61713580	LA 9	1.5 - 2.0	16	11	9	100
61713590	LA 11	1.5 - 2.0	19	14	11	100
61713600	LA 12	1.5 - 2.0	25	18	12	100

SKINMATIC® QUICK Set 1



SKINMATIC® QUICK Set 1

■ Benefits

- 4 sizes (M12, 16, 20, 25), only one tool
- Optimal at high packing density, easy installation in very tight spaces
- Easy and safe handling using open ratchet system
- Enormous time and cost saving

■ Application range

- Efficient assembly ratchet set for SKINTOP® polyamide cable glands.

■ Product features

- Made of high quality tool steel
- Including packing in handy strong ratchet box
- 1x R1 - ratchet
- 1x V1 - extension
- 4x open nut for wrench size (SW) 15, 19, 25, 30, suitable for ratchet head R1

Part number	Part designation / size	Width across flats mm	Pieces / PU
SKINMATIC® QUICK SET 1			
61610000	QUICK SET 1	15, 19, 25, 30	1

No subject to RoHS directive

SKINMATIC® MH Set



SKINMATIC® MH Set

■ Benefits

- Bearing surface of the tool is shaped in a way that prevents the hexagonal nut from slipping
- Ensures quick, safe and damage-free assembling

■ Application range

- Special tools designed for SKINTOP® brass types MS-M, MS-SC-M, MS-NPT

■ Product features

- Assembling-set manufactured from chromium plated tool steel
- SKINMATIC® MH set consists of three special keys:
 - SW 16/20 mm (M12/M16)
 - SW 24/29 mm (M20/M25)
 - SW 36/45 mm (M32/M40)

Part number	Width across flats mm	Overall length in mm	PU pieces (set)
SKINMATIC® MH-Set			
61791273	16/20, 24/29, 36/45	20 / 22 / 25	1

No subject to RoHS directive

SKINMATIC® mounting tools

SKINMATIC® mounting tools metric

SKINMATIC® KB-M



SKINMATIC® SB-M



SKINMATIC® GB-M



■ Application range

SKINMATIC® KB-M

- For simultaneous core drilling and tapping metric threads. Especially suitable for thin components and sheet metals.

SKINMATIC® SB-M

- For drilling the core-holes of metric threads.

SKINMATIC® GB-M

- For cutting metric threads.

■ Technical data



Material

SKINMATIC® KB-M

HSSE

SKINMATIC® SB-M

HSS

SKINMATIC® GB-M

HSSE

Part number	Part designation / size	Drill length mm	Overall length C mm	Pieces / PU
SKINMATIC® KB-M				
61791274	12 x 1,5	30	130.0	1
61791275	16 x 1,5	35	150.0	1
61791276	20 x 1,5	40	165.0	1
61791277	25 x 1,5	45	185.0	1
SKINMATIC® SB-M				
61791278	M 32 x 1,5	180	301.0	1
61791279	M 40 x 1,5	200	349.0	1
61791280	M 50 x 1,5	220	369.0	1
SKINMATIC® GB-M				
61791282	32 x 1,5	28	150.0	1
61791283	40 x 1,5	28	170.0	1
61791284	50 x 1,5	32	190.0	1

No subject to RoHS directive

Cable glands

SKINMATIC® mounting tools

SKINMATIC® mounting tools universal

SKINMATIC® RZ



■ Benefits

- Adjustable for all wrench size from 14 to 33 mm
- Assembling even when cables are already inserted
- Ergonomically designed plastic grips

■ Application range

- For quick mounting of cable and conduit glands

■ Product features

- Made of chromium plated tool steel
- With two expandable clamping ranges (lock positions)
- Small opening (14 - 22 mm): M12 to M16, PG7 to PG11, NPT 3/8"
- Large opening (24 - 33 mm): M20 to M25, PG13,5 to PG21, NPT 1/2" to 3/4"

Part number	Part designation / size	Width across flats mm	Overall length in mm	Pieces / PU
SKINMATIC® RZ				
61791260	SKINMATIC® RZ	14 - 33	250.0	1

No subject to RoHS directive

SKINTOP® NPT



SKINTOP® NPT

Benefits

- Conical NPT thread
- Permanent vibration protection
- Optimal strain relief
- Large, variable clamping ranges
- Maximum reliability

Application range

- Everywhere where cables must be safely inserted into housings.
- Machine and apparatus construction
- Automation technology
- Devices
- Housings

Approvals (Norm references)



Design

- NPT connection thread acc. to ANSI B1.20.2-1983

Note

- For suitable accessories see SKINTOP® PG accessories, except counter nut SKINTOP® GMP-GL
- 3/8" = PG9
- 1/2" = PG13.5
- 3/4" = PG21
- 1" = PG29

Design

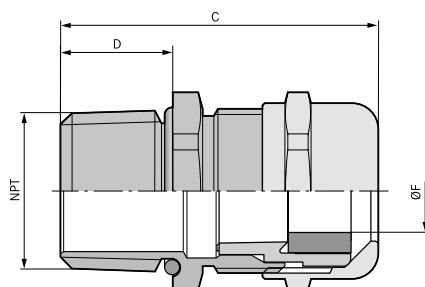
- SKINTOP® STR NPT equipped with a reduction seal insert which seals cables and wires with small outer diameters.

Technical data

RAL	Colour delivered RAL 7001 silver-grey RAL 9005 black / UV resistant
Material	Body: Polyamide Seal: CR
IP	Degree of protection IP 68 - 5 bar
0-1	Range of temperature -20°C up to +80°C

Part number	Part designation / size	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINTOP® ST silver grey						
53016010	ST 3/8 NPT"	3,5 - 8	19	43.0	15.0	100
53016030	ST 1/2 NPT"	5 - 12	24	45.0	15.0	100
53016050	ST 3/4 NPT"	13 - 18	33	53.0	15.0	50
53016060	ST 1 NPT"	19 - 25,4	42	60.0	15.0	25
SKINTOP® ST black						
53016210	ST 3/8 NPT"	3,5 - 8	19	43.0	15.0	100
53016230	ST 1/2 NPT"	5 - 12	24	45.0	15.0	100
53016250	ST 3/4 NPT"	13 - 18	33	53.0	15.0	50
53016260	ST 1 NPT"	19 - 25,4	42	60.0	15.0	25
SKINTOP® STR silver grey						
53016110	STR 3/8 NPT"	2 - 6	19	43.0	15.0	100
53016130	STR 1/2 NPT"	4 - 9	24	45.0	15.0	100
53016150	STR 3/4 NPT"	9 - 16	33	53.0	15.0	50
SKINTOP® STR black						
53016310	STR 3/8 NPT"	2 - 6	19	43.0	15.0	100
53016330	STR 1/2 NPT"	4 - 9	24	45.0	15.0	100
53016350	STR 3/4 NPT"	9 - 16	33	53.0	15.0	50
SKINTOP® BS silver grey						
53016610	BS 3/8 NPT"	3,5 - 8	19	82.0	15.0	100
53016630	BS 1/2 NPT"	5 - 12	24	104.0	15.0	100
53016650	BS 3/4 NPT"	13 - 18	33	133.0	15.0	50
SKINTOP® BS black						
53016810	BS 3/8 NPT"	3,5 - 8	19	82.0	15.0	100
53016830	BS 1/2 NPT"	5 - 12	24	104.0	15.0	100
53016850	BS 3/4 NPT"	13 - 18	33	133.0	15.0	50

SKINTOP® MS NPT



SKINTOP® MS NPT

■ Benefits

- Conical NPT thread
- Maximum reliability
- Optimal strain relief
- Large, variable clamping ranges

■ Application range

- In areas with high demands on special mechanical and chemical stability.
- Chemical industry
- Measurement and control technology
- Machine and apparatus construction
- Plant engineering

■ Approvals (Norm references)



■ Design

- NPT connection thread acc. to ANSI B1.20.2-1983

■ Note

- For suitable accessories see SKINTOP® metric accessories, except counter nut SKINDICHT® SM-M
- 1/4" = M12, 3/8" = M16
- 1/2" = M20, 3/4" = M25
- 1" = M32, 1 1/4" = M40
- 1 1/2" = M50, 2" = M63

■ Design

- SKINTOP® MSR NPT equipped with a reduction seal insert which seals cables and wires with small outer diameters
- Available on request as version with optimum EMC protection SKINTOP® MS-SC-NPT

■ Technical data



Material

Body: Nickel plated brass
Insert: Polyamide
Seal: CR
O-ring: NBR



Degree of protection

IP 68 - 5 bar

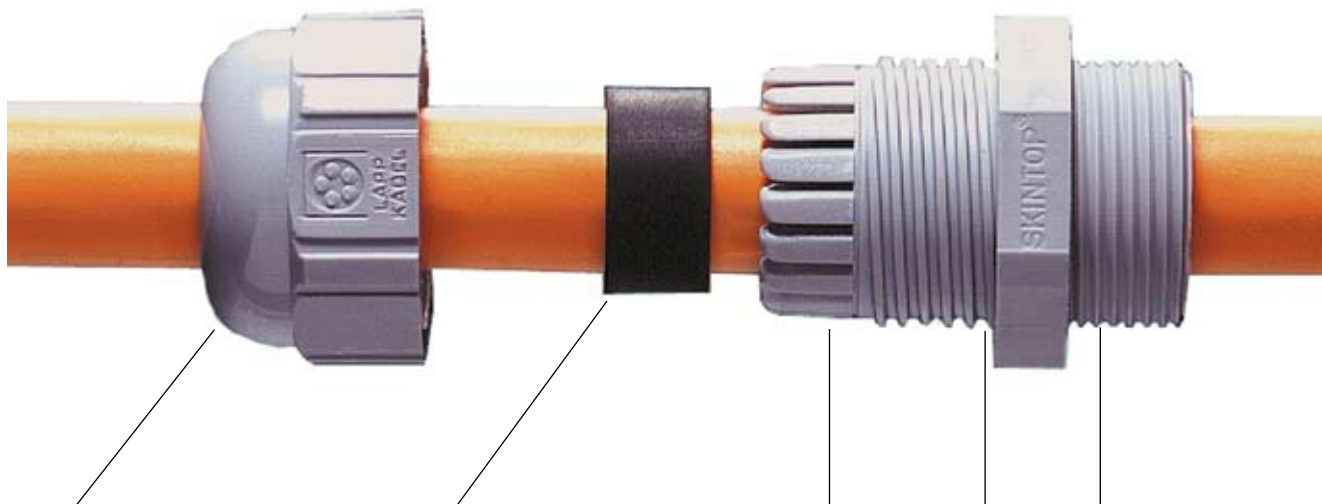


Range of temperature

-30°C up to +100°C

Part number	Part designation / size	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINTOP® MS-NPT						
53112004	1/4"	3,5 - 7	16	36.0	15.0	100
53112014	3/8"	4,5 - 10	20	39.7	15.0	100
53112024	1/2"	7 - 13	24	42.5	15.0	50
53112034	3/4"	9 - 17	29	44.5	15.0	25
53112044	1"	11 - 21	36	49.0	15.0	25
53112054	1 1/4"	19 - 28	45	57.5	17.0	10
53112064	1 1/2"	27 - 35	54	61.5	17.0	5
53112074	2"	34 - 45	67	63.5	17.0	5
SKINTOP® MSR-NPT						
53112006	1/4"	1 - 5	16	36.0	15.0	100
53112016	3/8"	2 - 7	20	39.7	15.0	100
53112026	1/2"	5 - 70	24	42.5	15.0	50
53112036	3/4"	6 - 13	29	44.5	15.0	25
53112046	1"	7 - 15	36	49.0	15.0	25
53112056	1 1/4"	15 - 23	45	57.5	17.0	10
53112066	1 1/2"	22 - 29	54	61.5	17.0	5
53112076	2"	28 - 39	67	63.5	17.0	5

Secured by a single turn of the hand



Cap nut with ergonomically designed gripping grooves. The gripping surfaces are generously dimensioned for spanners. Integral locking feature for vibration-resistant assembly.

Neoprene® sealing for a hermetic seal (IP 68 – 5 bar). Every SKINTOP® version is available with reducing seal insert for smaller cable diameters.

Lamellar design for optimum strain relief and protection of the cable. Widely variable clamping range, therefore only a few gland sizes are necessary.

Integral sealing ridges for a watertight junction with the housing.

Multiple trapezoidal thread for secure and instant assembly.

Shown here are the carefully matched components of the SKINTOP® screw-type cable glands. It is precisely these parts which guarantee optimum reliability.

■ Even more

With SKINTOP® you can fix the cable in an instant. Just feed it in, turn till tight - ready. So your cable is fixed, centered, hermetically sealed and completely strainrelieved with a turn of the hand. If you do not wish to use your hands, you can of course work with a spanner. Either way, with SKINTOP® you can achieve maximum reliability. To ensure that this remains so, SKINTOP® quality is continuously monitored. A quality which has brought us a great many international approvals.

■ Resistance properties



Thermal

SKINTOP® ST

-20°C up to +80°C

Chemical

- Alcohols
- Aromatic hydrocarbons
- Ethers
- Benzene
- Chlorinated hydrocarbons
- Esters
- Grease, animal-vegetable
- Fluorinated hydrocarbons
- Ketones
- Motor fuels

- = resistant
- = limited resistance
- = non-resistant

For other aggressive media we recommend a test in our laboratory.

Testing

SKINTOP® ST

Incandescent wire test to IEC 695, Part 2-1 and VDE 0471, Part 2-1
Test Temperature 750°C

SKINTOP® ST / SKINTOP® STR



SKINTOP® ST

■ Benefits

SKINTOP® ST

- Increased oil resistant for maximum reliability
- Permanent vibration protection
- Large, variable clamping ranges
- Optimal strain relief
- Various accessories (e. g. multiple sealing inserts)

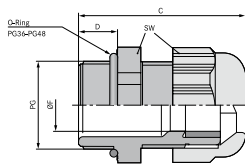
SKINTOP® STR

- Benefits see SKINTOP® ST

■ Application range

SKINTOP® ST

- Everywhere where cables must be safely inserted into housings.
- Machine and apparatus construction
- Photovoltaic
- Automation technology



SKINTOP® STR

SKINTOP® STR

- With reducing seal insert, to seal cables with smaller outer diameters.

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Note

SKINTOP® ST

- For suitable accessories see SKINTOP® accessories PG

- Counter nut to be used SKINTOP® GMP-GL

SKINTOP® STR

- For suitable accessories see SKINTOP® accessories PG

■ Technical data



Caution

Installation dimensions and tightening torques see Appendix T21



Colour delivered

RAL 7001 silver-grey
RAL 7035 light grey
RAL 9005 black / UV resistant



Material

Body: Polyamide
Seal: CR

Tests

GGVS: TÜ.EGG.020-95



Degree of protection

IP 68 - 5 bar

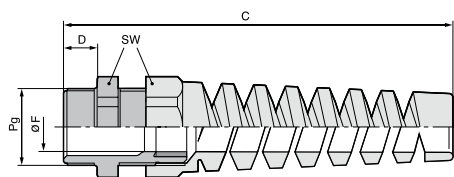


Range of temperature

-20°C up to +80°C

Part number	Part designation / size	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINTOP® ST silver grey						
53015000	ST 7	2,5 - 6,5	15	32.0	8.0	100
53015010	ST 9	3,5 - 8	19	36.0	8.0	100
53015020	ST 11	4 - 10	22	38.0	8.0	100
53015030	ST 13,5	6 - 12	24	41.0	9.0	100
53015040	ST 16	9 - 14	27	44.0	10.0	50
53015050	ST 21	13 - 18	33	49.0	11.0	50
53015060	ST 29	14 - 25	42	56.0	11.0	25
53015070	ST 36	24 - 32	53	66.0	13.0	10
53015080	ST 42	35 - 38	60	68.0	13.0	5
53015090	ST 48	39 - 44	65	69.0	14.0	5
SKINTOP® ST black						
53015200	ST 7	2,5 - 6,5	15	32.0	8.0	100
53015210	ST 9	3,5 - 8	19	36.0	8.0	100
53015220	ST 11	4 - 10	22	38.0	8.0	100
53015230	ST 13,5	6 - 12	24	41.0	9.0	100
53015240	ST 16	9 - 14	27	44.0	10.0	50
53015250	ST 21	13 - 18	33	49.0	11.0	50
53015260	ST 29	14 - 25	42	56.0	11.0	25
53015270	ST 36	24 - 32	53	66.0	13.0	10
53015280	ST 42	35 - 38	60	68.0	13.0	5
53015290	ST 48	39 - 44	65	69.0	14.0	5
SKINTOP® ST light grey						
53018000	ST 7	2,5 - 6,5	15	32.0	8.0	100
53018010	ST 9	3,5 - 8	19	36.0	8.0	100
53018020	ST 11	4 - 10	22	38.0	8.0	100
53018030	ST 13,5	6 - 12	24	41.0	9.0	100
53018040	ST 16	9 - 14	27	44.0	10.0	50
53018050	ST 21	13 - 18	33	49.0	11.0	50
53018060	ST 29	14 - 25	42	56.0	11.0	25
53018070	ST 36	24 - 32	53	66.0	13.0	10
53018080	ST 42	35 - 38	60	68.0	13.0	5
53018090	ST 48	39 - 44	65	69.0	14.0	5
SKINTOP® STR silver grey						
53015100	STR 7	1,5 - 5	15	32.0	8.0	100
53015110	STR 9	2 - 6	19	36.0	8.0	100
53015120	STR 11	2 - 7	22	38.0	8.0	100
53015130	STR 13,5	4 - 9	24	41.0	9.0	100
53015140	STR 16	6 - 12	27	44.0	10.0	50
53015150	STR 21	9 - 16	33	49.0	11.0	50
53015160	STR 29	11 - 20	42	56.0	11.0	25
53015170	STR 36	17 - 26	53	66.0	13.0	10
53015180	STR 42	22 - 31	60	68.0	13.0	5
53015190	STR 48	26 - 35	65	69.0	14.0	5
SKINTOP® STR black						
53015300	STR 7	1,5 - 5	15	32.0	8.0	100
53015310	STR 9	2 - 6	19	36.0	8.0	100
53015320	STR 11	2 - 7	22	38.0	8.0	100
53015330	STR 13,5	4 - 9	24	41.0	9.0	100
53015340	STR 16	6 - 12	27	44.0	10.0	50
53015350	STR 21	9 - 16	33	49.0	11.0	50
53015360	STR 29	11 - 20	42	56.0	11.0	25
53015370	STR 36	17 - 26	53	66.0	13.0	10
53015380	STR 42	22 - 31	60	68.0	13.0	5
53015390	STR 48	26 - 35	65	69.0	14.0	5
SKINTOP® STR light grey						
53018100	STR 7	1,5 - 5	15	32.0	8.0	100
53018110	STR 9	2 - 6	19	36.0	8.0	100
53018120	STR 11	2 - 7	22	38.0	8.0	100
53018130	STR 13,5	4 - 9	24	41.0	9.0	100
53018140	STR 16	6 - 12	27	44.0	10.0	50
53018150	STR 21	9 - 16	33	49.0	11.0	50
53018160	STR 29	11 - 20	42	56.0	11.0	25
53018170	STR 36	17 - 26	53	66.0	13.0	10
53018180	STR 42	22 - 31	60	68.0	13.0	5
53018190	STR 48	26 - 35	65	69.0	14.0	5

SKINTOP® BS



SKINTOP® BS

Benefits

- Reliable bending and antikink protection
- Conservation
- Functional reliability
- To protect flexible cables

Application range

- Cables for electrical appliances and machinery, which are moved under normal use, must be protected against excessive bending, as required in accordance with VDE 0730.
- Hand-held equipment
- Robotics industry
- Light and sound applications
- Flexing machine parts

Approvals (Norm references)



Design

- PG connection thread

Note

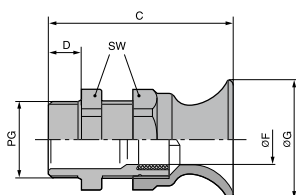
- For suitable accessories see SKINTOP® accessories PG
- Counter nut to be used SKINTOP® GMP-GL
- Version with reducing insert to seal smaller cable cross-sections SKINTOP® BSR on request

Technical data

	Caution Installation dimensions and tightening torques see Appendix T21
	Colour delivered RAL 7001 silver-grey RAL 9005 black / UV resistant
	Material Body: Polyamide Seal: CR
	Degree of protection IP 68 - 5 bar
	Range of temperature -20°C up to +80°C

Part number	Part designation / size	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINTOP® BS silver grey						
53015600	BS 7	2,5 - 6,5	15	62.0	8.0	100
53015610	BS 9	3,5 - 8	19	73.5	8.0	100
53015620	BS 11	4 - 10	22	86.0	8.0	100
53015630	BS 13,5	6 - 12	24	98.0	9.0	50
53015640	BS 16	9 - 14	27	111.5	10.0	25
53015650	BS 21	13 - 18	33	129.0	11.0	25
SKINTOP® BS black						
53015800	BS 7	2,5 - 6,5	15	62.0	8.0	100
53015810	BS 9	3,5 - 8	19	73.5	8.0	100
53015820	BS 11	4 - 10	22	86.0	8.0	100
53015830	BS 13,5	6 - 12	24	98.0	9.0	50
53015840	BS 16	9 - 14	27	111.5	10.0	25
53015850	BS 21	13 - 18	33	129.0	11.0	25

SKINTOP® BT



SKINTOP® BT

Benefits

- Reliable bending and antikink protection
- Conservation
- Functional reliability

Application range

- Cables for electrical appliances and machinery, which are moved under normal use, must be protected against excessive bending, as required in accordance with VDE 0730.
- Hand-held equipment
- Apparatus construction
- Light and sound applications
- Flexing machine parts

Approvals (Norm references)



Design

- PG connection thread

Note

- For suitable accessories see SKINTOP® accessories PG
- Counter nut to be used SKINTOP® GMP-GL

Technical data

	Caution Installation dimensions and tightening torques see Appendix T21
	Colour delivered RAL 7001 silver grey
	Material Body: Polyamide Seal: CR
	Degree of protection IP 68 - 5 bar
	Range of temperature -20°C up to +80°C

Part number	Part designation / size	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINTOP® BT silver grey						
53015410	9	3,5 - 8	19	42.9	8.0	100
53015420	11	4 - 10	22	47.7	8.0	100
53015430	13,5	5 - 12	24	52.0	9.0	50
53015440	16	9 - 14	27	55.9	10.0	50
53015450	21	13 - 18	33	64.4	11.0	50

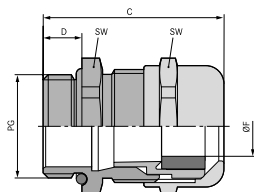
SKINTOP® MS / SKINTOP® MSR



SKINTOP® MS



SKINTOP® MSR



■ Benefits

SKINTOP® MS

- Maximum reliability
- Optimal strain relief
- Large, variable clamping ranges

SKINTOP® MSR

- Benefits see SKINTOP® MS

■ Application range

SKINTOP® MS

- In areas with high demands on special mechanical and chemical stability.
- Chemical industry
- Measurement and control technology
- Machine and apparatus construction
- Plant engineering

SKINTOP® MSR

- With reducing seal insert, to seal cables with smaller outer diameters.

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Note

- Counter nut to be used SKINDICHT® SM
- For suitable accessories see SKINTOP® accessories PG

■ Technical data



Caution

Installation dimensions and tightening torques see Appendix T21



Material

Body: Nickel plated brass
Insert: Polyamide
Seal: CR
O-ring: NBR



Degree of protection

IP 68 - 5 bar

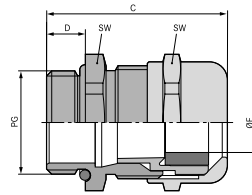


Range of temperature

-30°C up to +100°C

Part number	Part designation / size	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINTOP® MS						
52015700	MS 7	2 - 6.5	14	25.0	5.0	100
52015710	MS 9	4 - 8	17	29.0	6.0	100
52015720	MS 11	4 - 10	20	32.0	6.0	50
52015730	MS 13,5	5 - 12	22	34.0	6.5	50
52015740	MS 16	8 - 14	24	35.0	6.5	50
52015750	MS 21	11 - 18	30	40.0	7.0	25
52015760	MS 29	16 - 25	40	48.0	8.0	25
52015765	MS 36	19 - 32	50	62.0	15.0	10
52015766	MS 42	28 - 38	57	62.0	15.0	5
52015767	MS 48	34 - 44	64	62.0	15.0	5
SKINTOP® MSR						
52015770	MSR 7	2 - 5	14	25.0	5.0	100
52015780	MSR 9	2 - 6	17	29.0	6.0	100
52015790	MSR 11	3 - 7	20	32.0	6.0	50
52015800	MSR 13,5	4 - 9	22	34.0	6.5	50
52015810	MSR 16	6 - 13	24	35.0	6.5	50
52015820	MSR 21	8 - 16	30	40.0	7.0	25
52015830	MSR 29	10.5 - 20	40	48.0	8.0	25
52015831	MSR 36	19 - 26	50	62.0	15.0	10
52015832	MSR 42	24 - 31	57	62.0	15.0	5
52015833	MSR 48	28 - 35	64	62.0	15.0	5

SKINTOP® MS-XL / SKINTOP® MSR-XL



SKINTOP® MS-XL



SKINTOP® MSR-XL

■ Benefits

SKINTOP® MS-XL

- Especially for thick walls
- Maximum reliability
- Optimal strain relief
- Large, variable clamping ranges

SKINTOP® MSR-XL

- Benefits see SKINTOP® MS-XL

■ Application range

SKINTOP® MS-XL

- In areas with high demands on special mechanical and chemical stability.
- Chemical industry
- Measurement and control technology
- Machine and apparatus construction
- Plant engineering

SKINTOP® MSR-XL

- With reducing seal insert, to seal cables with smaller outer diameters

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Note

- Counter nut to be used SKINDICHT® SM
- For suitable accessories see SKINTOP® accessories PG

■ Technical data

⚠ Caution

Installation dimensions and tightening torques see Appendix T21



Material

Body: Nickel plated brass
Insert: Polyamide
Seal: CR
O-ring: NBR



Degree of protection

IP 68 - 5 bar

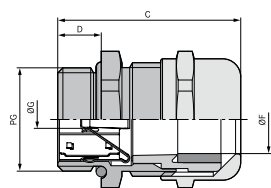


Range of temperature

-30°C up to +100°C

Part number	Part designation / size	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINTOP® MS-XL						
52115700	MS 7 XL	2 - 6.5	14	32.0	12.0	100
52115710	MS 9 XL	4 - 8	17	35.0	12.0	100
52115720	MS 11 XL	4 - 10	20	38.0	12.0	50
52115730	MS 13,5 XL	5 - 12	22	39.5	12.0	50
52115740	MS 16 XL	8 - 14	24	40.5	12.0	50
52115750	MS 21 XL	11 - 18	30	45.0	12.0	25
52115760	MS 29 XL	16 - 25	40	52.0	15.0	25
SKINTOP® MSR-XL						
52115770	MSR 7 XL	2 - 5	14	32.0	12.0	100
52115780	MSR 9 XL	2 - 6	17	35.0	12.0	100
52115790	MSR 11 XL	3 - 7	20	38.0	12.0	50
52115800	MSR 13,5 XL	4 - 9	22	39.5	12.0	50
52115810	MSR 16 XL	6 - 13	24	40.5	12.0	50
52115820	MSR 21 XL	8 - 16	30	45.0	12.0	25
52115830	MSR 29 XL	10.5 - 20	40	52.0	15.0	25

SKINTOP® MS-SC



SKINTOP® MS-SC

■ Benefits

- Suitable for cables and wires with and without inner sheath
- Also suitable for continuing the cable screen to another connection
- Low resistance screen contact, optimal EMC protection
- High conductive, flexible EMC contact for clamping of various screen diameters
- Few operation steps, easy to assemble

■ Application range

- For EMC compliant earthing of the copper braiding and copper shaft sheath
- Automation technology
- Tele communication
- Measurement and control technology
- Plant engineering and construction

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Note

- For suitable accessories see SKINTOP® accessories PG
- For painted, anodised or powdered-coated housings, you will require our EMC counter nut SKINDICHT® SM-PE for best contact

■ Technical data

**Caution**

Installation dimensions and tightening torques see Appendix T21

**Material**

Body: Nickel plated brass
Insert: Polyamide
Seal: CR
O-ring: NBR

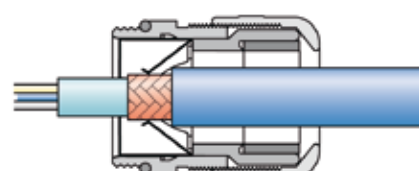
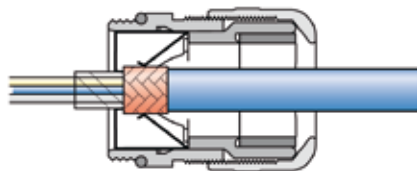
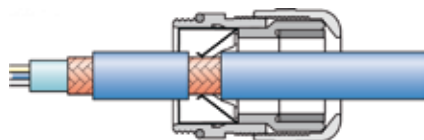
**Degree of protection**

IP 68

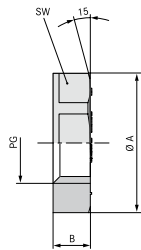
**Range of temperature**

-30°C up to +100°C

Part number	Part designation / size	Clamping range ØF mm	Thread length D mm	Pieces / PU
SKINTOP® MS-SC				
53112210	MS-SC 9	3 - 8	6.0	50
53112220	MS-SC 11	4 - 10	6.0	50
53112230	MS-SC 13,5	5 - 12	6.5	25
53112240	MS-SC 16	8 - 14	6.5	25
53112250	MS-SC 21	11 - 17.5	7.0	25
53112260	MS-SC 29	16 - 25	8.0	10
53112270	MS-SC 36	19 - 32	15.0	5
SKINTOP® MS-SC XL				
53112310	MS-SC XL 9	3 - 8	12.0	50
53112320	MS-SC XL 11	4 - 10	12.0	50
53112330	MS-SC XL 13,5	5 - 12	12.0	25
53112340	MS-SC XL 16	8 - 14	12.0	25
53112350	MS-SC XL 21	11 - 17.5	12.0	25
53112360	MS-SC XL 29	16 - 25	15.0	10



SKINTOP® GMP-GL



SKINTOP® GMP-GL

■ Benefits

- Glas fibre reinforced for maximum mechanical stability
- Bearing surface avoids scratchings on the housing while mounting with an wrench

■ Application range

- For locking of SKINTOP® cable glands in boreholes without thread.

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Note

- UL approval only when used with the UL approved SKINTOP® polyamide cable glands
- Designed for use in connection with SKINTOP® ST(R)

■ Technical data

- On request**
Available without collar (without surface for assembling tool)
- Colour delivered**
RAL 7001 silver-grey
RAL 7035 light grey
RAL 9005 black / UV resistant
- Material**
Polyamide, glass fibre reinforced
- Range of temperature**
-20 °C up to +100 °C

Part number	Part designation / size	SW mm	Pieces / PU
SKINTOP® GMP-GL silver grey with collar			
53019000	GMP-GL 7	19	100
53019010	GMP-GL 9	22	100
53019020	GMP-GL 11	24	100
53019030	GMP-GL 13,5	27	100
53019040	GMP-GL 16	30	100
53019050	GMP-GL 21	36	50
53019060	GMP-GL 29	46	50
53019070	GMP-GL 36	60	25
53019080	GMP-GL 42	65	25
53019090	GMP-GL 48	70	25
SKINTOP® GMP-GL black with collar			
53019200	GMP-GL 7	19	100
53019210	GMP-GL 9	22	100
53019220	GMP-GL 11	24	100
53019230	GMP-GL 13,5	27	100
53019240	GMP-GL 16	30	100
53019250	GMP-GL 21	36	50
53019260	GMP-GL 29	46	50
53019270	GMP-GL 36	60	25
53019280	GMP-GL 42	65	25
53019290	GMP-GL 48	70	25
SKINTOP® GMP-GL light grey with collar			
53019001	GMP-GL 7	19	100
53019011	GMP-GL 9	22	100
53019021	GMP-GL 11	24	100
53019031	GMP-GL 13,5	27	100
53019041	GMP-GL 16	30	100
53019051	GMP-GL 21	36	50
53019061	GMP-GL 29	46	50
53019071	GMP-GL 36	60	25
53019081	GMP-GL 42	65	25
53019091	GMP-GL 48	70	25

SKINTOP® DIX



■ Benefits

- For inserting different cables or wires into only one gland
- Higher packing density allows smaller part construction

■ Application range

- To be used in SKINTOP® cable glands.
- A sealing ring with several holes is used in place of the inner sealing insert.

■ Approvals (Norm references)



■ Note

- IP 68 can be achieved when all openings are closed and all bores are optimally occupied, i.e. when using cables with nominal diameter and/or SKINTOP® DIX-DV

■ Technical data

RAL	Colour delivered
	Natural
Material	Silicone
IP	Degree of protection
	IP 54
Range of temperature	-40°C up to +100°C

Part number	Part designation / size	PG size	Number of cables x Cable Ø	Pieces / PU
SKINTOP® DIX				
53607225	DIX 7225	7	2 x 2.5	100
53607417	DIX 7417	7	4 x 1.7	100
53609230	DIX 9230	9	2 x 3	100
53611225	DIX 11225	11	2 x 2.5	100
53611330	DIX 11330	11	3 x 3	100
53611240	DIX 11240	11	2 x 4	100
53611430	DIX 11430	11	4 x 3	100
53613250	DIX 13250	13,5	2 x 5	100
53613340	DIX 13340	13,5	3 x 4	100
53613440	DIX 13440	13,5	4 x 4	100
53616140	DIX 16140	16	1 x 4	50
53616225	DIX 16225	16	2 x 2.5	50
53616240	DIX 16240	16	2 x 4	50
53616340	DIX 16340	16	3 x 4	50
53616350	DIX 16350	16	3 x 5	50
53616440	DIX 16440	16	4 x 4	50
53616540	DIX 16540	16	5 x 4	50
53616450	DIX 16450	16	4 x 5	50
53616356	DIX 16356	16	3 x 5.6	50
53616260	DIX 16260	16	2 x 6	50
53616360	DIX 16360	16	3 x 6	50
53621550	DIX 21550	21	5 x 5	50
53621460	DIX 21460	21	4 x 6	50
53621640	DIX 21640	21	6 x 4	50
53621270	DIX 21270	21	2 x 7	50
53621370	DIX 21370	21	3 x 7	50
53621280	DIX 21280	21	2 x 8	50
53621380	DIX 21380	21	3 x 8	50
53629556	DIX 29556	29	5 x 5.6	50
53629470	DIX 29470	29	4 x 7	50
53629570	DIX 29570	29	5 x 7	50
53629480	DIX 29480	29	4 x 8	50
53629290	DIX 29290	29	2 x 9	50
53629390	DIX 29390	29	3 x 9	50
53629490	DIX 29490	29	4 x 9	50
53629675	DIX 29675	29	6 x 7.5	50

SKINTOP® DIX-AUTOMATION

■ Benefits

- Optimum seal when using AS-I bus cables
- Strain relief

■ Application range

- This seals can be used instead of our standard seals in the SKINTOP® cable glands.
- Switch cabinets
- Control panels
- Office applications

■ Approvals (Norm references)



■ Note

- IP 68 can be achieved if the hole is optimally occupied, i. e. when using standard AS-I cables

■ Design

- True to dimension cut for AS-I bus cables



■ Technical data

RAL	Colour delivered RAL 9005 black
Material	NBR
IP	Degree of protection IP 54
Range of temperature	-40 °C up to +100 °C

Part number	Part designation / size	Pieces / PU
SKINTOP® DIX ASI		
53611000	DIX ASI 11	50

SKINTOP® DIX-DV / SKINTOP® SD / SKINTOP® DV



SKINTOP® DIX-DV



SKINTOP® SD



SKINTOP® DV

■ Benefits

SKINTOP® DIX-DV

- Avoids intrusion of water and dust into not used bore holes of SKINTOP® DIX multiple sealing inserts

SKINTOP® SD

- Prevents dust and dirt from penetrating inside the housing

SKINTOP® DV

- Prevents humidity penetrating inside the housing

■ Application range

SKINTOP® DIX-DV

- For inserting into unoccupied holes of the SKINTOP® DIX multiple sealing inserts, to ensure protection class.

SKINTOP® SD

- This dust protection can be placed under the cap nut of the SKINTOP® cable glands.
- Preparatory works
- Protection of not used connection points

SKINTOP® DV

- This seals can be placed into the sealing ring of the SKINTOP® cable glands.
- Preparatory works
- Protection of not used connection points

■ Approvals (Norm references)



■ Note

SKINTOP® DIX-DV

- When assembled professionally and properly, the protection class IP 68 can be reached

SKINTOP® SD

- Easy handling, without disassembly - push through cable

SKINTOP® DV

- When assembled professionally and properly, the protection class IP 68 can be reached

■ Note

- Delivery will be in max. possible packing unit, minimum order quantity is one packing unit

■ Technical data



Colour delivered
SKINTOP® DIX-DV

Natural

SKINTOP® SD

Black

SKINTOP® DV

Black



Material
SKINTOP® DIX-DV

Polyamide

SKINTOP® SD

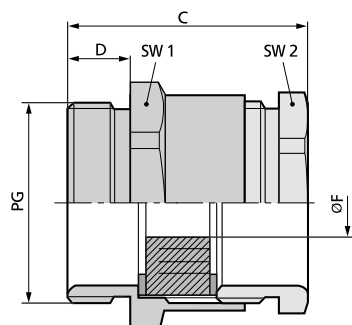
PE foam

SKINTOP® DV

CR

Part number	Part designation / size	ØF mm	Height mm	PU
SKINTOP® DIX-DV				
53100003	DIX-DV 3 x 9	3.0	9	100
53100004	DIX-DV 4 x 9	4.0	9	100
53100005	DIX-DV 5 x 11	5.0	11	100
53100055	DIX-DV 5,5 x 11	5.5	11	100
53100006	DIX-DV 6 x 14	6.0	14	100
53100007	DIX-DV 7 x 14	7.0	14	100
53100008	DIX-DV 8 x 14	8.0	14	100
53100009	DIX-DV 9 x 14	9.0	14	100
SKINTOP® SD				
52025235	SD 7	10.5	2	500
52025240	SD 9	13.5	2	500
52025250	SD 11	17.0	2	250
52025260	SD 13,5	18.5	2	250
52025270	SD 16	20.5	2	250
52025280	SD 21	26.0	2	100
52025290	SD 29	34.5	2	100
52025291	SD 36	44.5	2	100
SKINTOP® DV				
53800640	DV 7	7.0	6.5	500
53800641	DV 9	8.5	7.5	500
53800579	DV 11	10.5	8.5	250
53800583	DV 13,5	12.5	8.5	250
53800642	DV 16	14.5	9	250
53800643	DV 21	18.5	11	100

SKINDICHT® SVRN / SKINDICHT® SVRE



SKINDICHT® SVRN

SKINDICHT® SVRE

Benefits

SKINDICHT® SVRN

- High mechanic stability
- Optimal strain relief

SKINDICHT® SVRE

- Incised sealing ring can be adjusted to clamp several cable diameters
- Fewer sizes need to be kept in stock

Application range

SKINDICHT® SVRN

- Brass cable gland with hexagonal fitting and metric connecting thread for fast assembly with a flat spanner.

SKINDICHT® SVRE

- Brass cable gland with hexagonal fitting and variable incised sealing ring.

Approvals (Norm references)



Design

- PG connection thread

Note

SKINDICHT® SVRN

- Counter nut to be used SKINDICHT® SM
- Connection thread PG 42 and PG 48 see SKINDICHT® SVRE

SKINDICHT® SVRE

- For additional accessories see SKINDICHT® EV
- Counter nut to be used SKINDICHT® SM

Technical data



Caution

Installation dimensions
see Appendix T21



On request

SKINDICHT® SVRE

Available with long connection thread
PG 11 to 36 available with VITON® seals



Material

SKINDICHT® SVRN

Body: Nickel plated brass

Seal: CR

SKINDICHT® SVRE

Body: Nickel plated brass

Incised seal: CR



Degree of protection

IP 54



Range of temperature

SKINDICHT® SVRN

-20°C up to +100°C

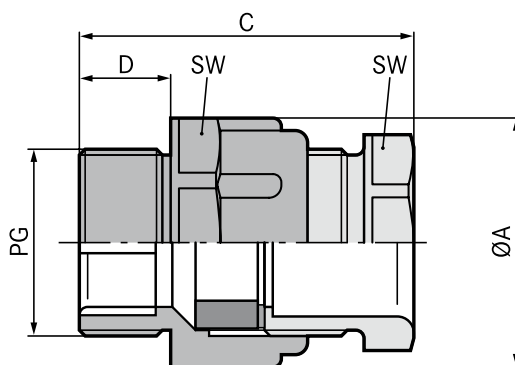
SKINDICHT® SVRE

-20°C up to +80°C

Part number	Part designation / size	Incised sealing ring ØF, mm	PG size	Clamping range mm	SW 1 / SW2 mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINDICHT® SVRN								
52000210	SVRN 7005/N		7	5	14 / 13	20.6	5.0	100
52020300	SVRN 7006/N		7	6	14 / 13	20.6	5.0	100
52020310	SVRN 7007/N		7	7	14 / 13	20.6	5.0	100
52020320	SVRN 9007/N		9	7	17 / 15	22.6	6.0	100
52020330	SVRN 9008/N		9	8	17 / 15	22.6	6.0	100
52000220	SVRN 9009/N		9	9	17 / 15	22.6	6.0	100
52020341	SVRN 11010/N		11	10	20 / 18	23.6	6.0	50
52000230	SVRN 11011/N		11	11	20 / 18	23.6	6.0	50
52000240	SVRN 13011/N		13,5	11	22 / 20	26.1	6.5	50
52000241	SVRN 13012/N		13,5	12	22 / 20	26.1	6.5	50
52000250	SVRN 16013/N		16	13	24 / 22	27.1	6.5	50
52000251	SVRN 16014/N		16	14	24 / 22	27.1	6.5	50
52000260	SVRN 21018/N		21	18	30 / 28	29.6	7.0	50
52000270	SVRN 29027/N		29	27	40 / 37	32.6	8.0	50
52000280	SVRN 36034/N		36	34	50 / 47	38.6	9.0	20
SKINDICHT® SVRE								
52005540	SVRE 9	5/8			17 / 15	22.6	6.0	100
52000310	SVRE 11	7 / 10 / 12,5			20 / 18	22.6	6.0	50
52000320	SVRE 13,5	7 / 10,5 / 13 / 16			22 / 20	26.1	6.5	50
52000330	SVRE 16	8 / 10,5 / 13,5 / 16			24 / 22	27.1	6.5	50
52000340	SVRE 21	11 / 15 / 18 / 20			30 / 28	29.6	7.0	50
52000350	SVRE 29	19 / 23 / 27 / 31			40 / 37	32.6	8.0	50
52000360	SVRE 36	25 / 28 / 31 / 35			50 / 47	38.6	9.0	20
52005550	SVRE 42	35,5 / 39 / 42,5 / 46			57 / 54	43.6	10.0	10
52005560	SVRE 48	40,5 / 44 / 47 / 50,5			64 / 60	45.1	10.0	10

Viton® is a registered trademark of DuPont de Nemours

SKINDICHT® SVFK



SKINDICHT® SVFK

■ Benefits

- Economic type
- Lateral sealing lips fit automatically around various cable dimensions
- Cable-specific seal dimensions are no longer necessary
- Dimensional adaptability
- Large clear opening allows clamping of up to two flat cables

■ Application range

- For inserting of flat cables.
- Conveyor systems
- Pumps
- Elevators
- Switch cabinet building

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Note

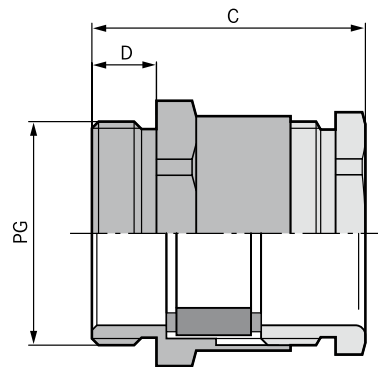
- Counter nut to be used SKINDICHT® GMK
- For suitable flat cables, see ÖLFLEX® LIFT F for indoor applications or ÖLFLEX® CRANE F for outdoor applications

■ Technical data

- Caution**
Installation dimensions
see Appendix T21
- Colour delivered**
RAL 7035 light grey
- Material**
Body: Polystyrene
Special sealing insert: CR
- Degree of protection**
IP 54
- Range of temperature**
-20°C up to +60°C

Part number	Part designation / size	Flat cable width min./ max.	Min./ max. cable thickness in mm	SW 1 / SW2 mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINDICHT® SVFK							
52005470	SVFK 16	-- 15.0	-- 5.0	27 / 23	39.5	10.0	25
52005680	SVFK 21	10.0 - 20.5	3.0 - 8.0	32 / 30	43.0	11.0	25
52005690	SVFK 29	15.0 - 27.0	4.0 - 11.5	42 / 41	45.0	11.0	25
52005700	SVFK 36	25.0 - 34.0	4.0 - 11.5	53 / 50	51.0	13.0	10
52005710	SVFK 42	30.0 - 40.0	5.0 - 12.0	60 / 55	54.0	13.0	5
52005720	SVFK 48	35.0 - 45.0	5.0 - 12.0	65 / 60	55.0	15.0	5

SKINDICHT® SVF



SKINDICHT® SVF

■ Benefits

- High mechanic stability
- Lateral sealing lips fit automatically around various cable dimensions
- Optimal strain relief
- Large clear opening allows clamping of up to two flat cables

■ Application range

- For inserting of flat cables.
- Conveyor systems
- Pumps
- Elevators
- Switch cabinet building

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Note

- For suitable flat cables, see ÖLFLEX® LIFT F for indoor applications or ÖLFLEX® CRANE F for outdoor applications
- Counter nut to be used SKINDICHT® SM

■ Technical data

- Caution**
Installation dimensions see Appendix T21
- On request**
Available with long connection thread
- Material**
Body: Nickel plated brass
Special sealing insert: CR
- Degree of protection**
IP 54
- Range of temperature**
-20°C up to +100°C

Part number	Part designation / size	Flat cable width min./ max.	Min./ max. cable thickness in mm	SW1 / SW2 mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINDICHT® SVF							
52005480	PG 16	-- 16.0	-- 5.0	24 / 22	27.5	6.5	25
52005490	PG 21	9.0 - 21.0	3.0 - 8.0	30 / 28	30.0	7.0	25
52005500	PG 29	14.0 - 30.0	4.0 - 11.5	40 / 37	31.5	8.0	10
52005510	PG36	24.0 - 40.0	4.0 - 11.5	50 / 47	36.0	9.0	10
52005520	PG 42	29.0 - 45.0	5.0 - 12.0	57 / 54	40.0	10.0	5
52005530	PG 48	34.0 - 50.0	5.0 - 12.0	64 / 60	41.5	10.0	5

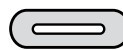
SKINDICHT® FL



FL 1
1 x 70 x 12 mm
1 x 63 x 7 mm



FL 4
63 x 12 mm



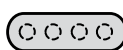
FL 2
49 x 4,5 mm



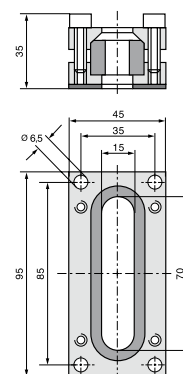
FL 5
82 x 27 mm



FL 3
2 x 49 x 11,5 mm



e.g. 4 x ÖLFLEX® CLASSIC 110
3 x 1,5 mm² / Ø 6,7 mm



SKINDICHT® FL

■ Benefits

- The seal profiles enable many problems to be solved
- Several flat and round cables can be fed through
- Through the conical internal contour in the upper part of the housing the sealing inserts are pressed on to the cable

■ Application range

- Mainly used for large flat cables.
- Elevators
- Conveyor systems
- Crane building
- Power chains

■ Approvals (Norm references)



■ Note

- When assembled professionally and properly, the protection class IP 65 can be reached
- For suitable flat cables, see ÖLFLEX® LIFT F for indoor applications or ÖLFLEX® CRANE F for outdoor applications

■ Technical data



Material

Body: Aluminium, special untreated alloy
Screws and spring washers: Zinc plated steel
Seal: NBR



Degree of protection

IP 65

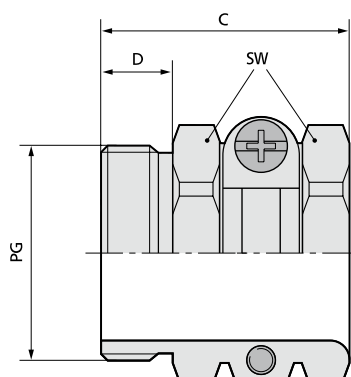


Range of temperature

-20°C up to +100°C

Part number	Part designation / size	Cable pass length x width mm	Dimension: L x W x H in mm	Pieces / PU
SKINDICHT® FL				
52008010	FL 1	70 x 15 + 63 x 7	45 x 35 x 95	1
52008020	FL 2	49 x 4,5	45 x 35 x 95	1
52008030	FL 3	49 x 4,5 + 49 x 4,5 (49 x 11,5)	45 x 35 x 95	1
52008040	FL 4	63 x 12,0 (+0,2)	45 x 35 x 95	1
52008050	FL 5	70 x 15	45 x 35 x 95	1

SKINDICHT® SH



SKINDICHT® SH

Benefits

- Seawater-resistant
- Anti-magnetic
- Corrosion resistant
- Stable and safe strain relief

Application range

- Extremely robust and solid strain relief cable gland.
- Building sites
- Plant engineering

- Drives

Approvals (Norm references)



Design

- PG connection thread

Note

- Counter nut to be used SKINDICHT® SM

Technical data



Caution

Installation dimensions
see Appendix T21



On request

Available with long connection thread



Material

Body: Nickel plated brass



Degree of protection

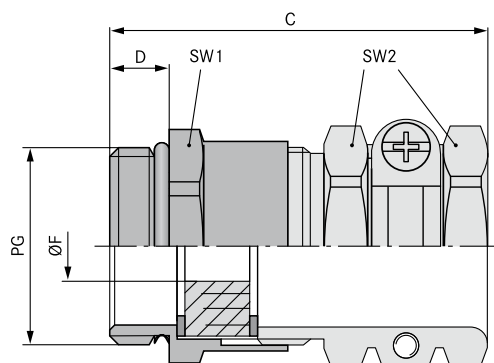
IP 20

Part number	Part designation / size	Clamping range ØF mm	SW mm	Max. fitting size for installation in mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINDICHT® SH							
52000830	SH 7	8 - 10	15	22	17,5	5,5	50
52000840	SH 9	10 - 12,5	17	25	20,5	6,0	50
52000850	SH 11	11 - 15	20	28	21,5	6,0	50
52000860	SH 13,5	14 - 16,5	22	32	24,0	7,5	25
52000870	SH 16	15 - 18	24	35	26,0	7,5	25
52000880	SH 21	18 - 23,5	30	46	29,0	8,0	25
52000890	SH 29	23 - 31	41	58	33,0	8,0	10
52000900	SH 36	29 - 40,5	50	70	36,5	9,5	10
52000910	SH 42	34 - 45	57	78	38,0	10,0	5
52000920	SH 48	39 - 50	64	86	39,5	11,5	5

SKINDICHT® SHZ



SKINDICHT® SHZ



■ Benefits

- Incised sealing ring can be adjusted to clamp several cable diameters
- High strain relief
- Robust
- For cables with large outer diameters

■ Application range

- Compact brass cable gland for reliable strain relief, solid, for large cable diameters.

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Note

- SKINDICHT® SHZ-XL is similar to the SKINDICHT® SHZ, but has an extended connection thread for thick walls
- For additional accessories see SKINDICHT® EV
- Counter nut to be used SKINDICHT® SM

■ Technical data



Caution
Installation dimensions
see Appendix T21



Material
Body: Nickel plated brass
Seal: CR
O-ring: NBR



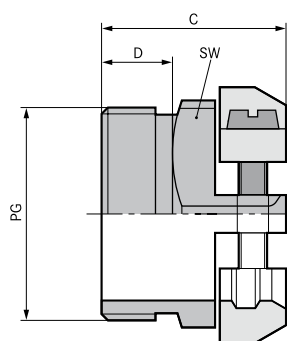
Degree of protection
IP 55



Range of temperature
-20°C up to +80°C

Part number	Part designation / size	Clamping range ØF mm	Max. fitting size for installation in mm	SW1 / SW2 mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINDICHT® SHZ							
52005590	SHZ 7	5 - 6	21	14 / 15	30.0	5.0	50
52005600	SHZ 9	7,5 - 8,5	25	17 / 17	34.0	6.0	50
52000930	SHZ 11	9,5 - 12	28	20 / 20	35.0	6.0	25
52000940	SHZ 13,5	12,5 - 14	32	22 / 22	40.0	6.5	25
52000950	SHZ 16	13,5 - 16	35	24 / 24	42.0	6.5	25
52000960	SHZ 21	15,5 - 21	46	30 / 30	47.0	7.0	25
52000970	SHZ 29	21,5 - 27,5	58	40 / 41	53.0	8.0	10
52000980	SHZ 36	27 - 34	70	50 / 50	61.0	9.0	10
52005610	SHZ 42	34 - 43	78	57 / 57	66.0	10.0	5
52005620	SHZ 48	38 - 48	86	64 / 64	68.0	10.0	5
SKINDICHT® SHZ-XL							
52023716	SHZ 7	5 - 6	21	14 / 15	40.0	10.0	50
52023717	SHZ 9	7,5 - 8,5	25	17 / 17	43.0	10.0	50
52023718	SHZ 11	9,5 - 12	28	20 / 20	44.0	10.0	25
52023719	SHZ 13,5	12,5 - 14	32	22 / 22	48.5	10.0	25
52023720	SHZ 16	13,5 - 16	35	24 / 24	50.5	10.0	25
52024840	SHZ 21	15,5 - 21	46	30 / 30	55.0	11.0	25
52025530	SHZ 29	21,5 - 27,5	58	40 / 41	60.0	13.0	10
52023721	SHZ 36	27 - 34	70	50 / 50	67.0	13.0	10
52023722	SHZ 42	34 - 43	78	57 / 57	71.0	14.0	5
52023723	SHZ 48	38 - 48	86	64 / 64	73.0	14.0	5

SKINDICHT® SK



SKINDICHT® SK

■ Benefits

- Reliable strain relief
- Large clamping range

■ Application range

- Cable gland with two solid brass saddle clamps.
- Connectors
- Switches
- Control panels

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Note

- Counter nut to be used SKINDICHT® SM

■ Technical data

Caution
Installation dimensions
see Appendix T21

On request
Available with long connection thread

Material
Body: Nickel plated brass

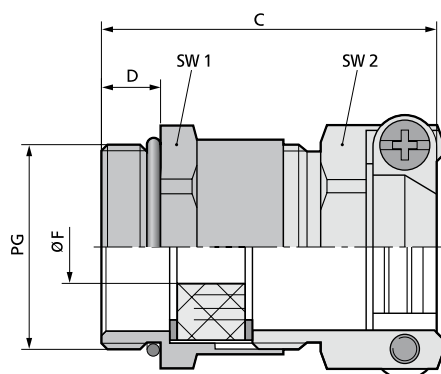
Degree of protection
IP 20

Part number	Part designation / size	Clamping range ØF mm	SW mm	Max. fitting size for installation in mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINDICHT® SK							
52004230	SK 9	6 - 12	19	24	16.5	6.0	50
52004240	SK 11	7 - 15	21	27	16.5	6.0	50
52004250	SK 13,5	12 - 16,5	22	30	18.5	7.5	25
52004260	SK 16	13 - 18	24	33	19.0	7.5	25
52004270	SK 21	15 - 23	30	42	22.5	8.0	25
51712740	SK 29	20 - 31	41	58	26.0	8.0	10

SKINDICHT® SKZ



SKINDICHT® SKZ



■ Benefits

- Incised sealing ring can be adjusted to clamp several cable diameters
- High strain relief
- High mechanic stability

■ Application range

- Saddle clamp strain relief gland for raw applications.
- Building sites
- Plant engineering
- Drives

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Note

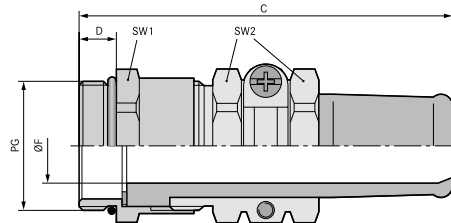
- SKINDICHT® SKZ-XL is similar to the SKINDICHT® SKZ, but has an extended connection thread for thick walls
- Counter nut to be used SKINDICHT® SM
- For additional accessories see SKINDICHT® EV

■ Technical data

- Caution**
Installation dimensions
see Appendix T21
- Material**
Body: Nickel plated brass
Incised sealing ring: CR
O-ring: NBR
- Degree of protection**
IP 55
- Range of temperature**
-20°C up to +80°C

Part number	Part designation / size	Clamping range ØF mm	Max. fitting size for installation in mm	SW 1 / SW2 mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINDICHT® SKZ							
52004280	SKZ 9	6 - 8,5	24	17 / 17	30.0	6.0	50
52004290	SKZ 11	8 - 12	27	20 / 21	30.0	6.0	50
52004300	SKZ 13,5	12 - 14	30	22 / 22	34.0	6.5	25
52004310	SKZ 16	13 - 16	33	24 / 24	35.0	6.5	25
52004320	SKZ 21	15 - 21	42	30 / 30	41.0	7.0	25
52005570	SKZ 29	20 - 27,5	58	40 / 41	46.0	8.0	10
SKINDICHT® SKZ-XL							
52005575	SKZ 9	6 - 8,5	24	17 / 17	39.0	15.0	50
52005576	SKZ 11	8 - 12	27	20 / 21	39.0	15.0	50
52005577	SKZ 13,5	12 - 14	30	22 / 22	42.5	15.0	25
54000043	SKZ 16	13 - 16	33	24 / 24	43.5	15.0	25
54000011	SKZ 21	15 - 21	42	30 / 30	49.0	15.0	25
54000098	SKZ 29	20 - 27,5	58	40 / 41	53.0	15.0	10

SKINDICHT® SR



SKINDICHT® SR

■ Benefits

- Reliable bending and antikink protection
- High strain relief
- Robust
- For cables with large outer diameters
- High degree of protection

■ Application range

- Cables for electrical appliances and machinery, which are moved under normal use, must be protected against excessive bending, as required in accordance with VDE 0730.
- Hand-held equipment
- Movable machinery
- Building sites
- Flexing machine parts

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Note

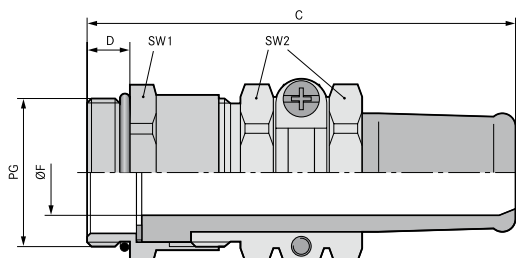
- Counter nut to be used SKINDICHT® SM
- EMC type please see SKINDICHT® SRE

■ Technical data

- Caution**
Installation dimensions see Appendix T21
- On request**
Available with long connection thread
- Material**
Body: Nickel plated brass
O-ring: NBR
Antikink protection: CR
- Degree of protection**
IP 65
- Range of temperature**
-20 °C up to +80 °C

Part number	Part designation / size	Clamping range ØF mm	Max. fitting size for installation in mm	SW1 / SW2 mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINDICHT® SR							
52000990	SR 07/05	3,5 - 5	23	14 / 15	50.0	5.0	50
52001000	SR 09/07	5,5 - 7	25	17 / 17	52.0	6.0	50
52001010	SR 11/07	5,5 - 7	28	20 / 20	56.0	6.0	25
52001020	SR 11/09	7,5 - 9	28	20 / 20	56.0	6.0	25
52001030	SR 13/09	7,5 - 9	32	22 / 22	62.0	6.5	25
52001040	SR 13/11	9 - 11	32	22 / 22	62.0	6.5	25
52001050	SR 13/13	11 - 13	32	22 / 22	62.0	6.5	25
52001060	SR 16/13	11,5 - 13	35	24 / 24	67.0	6.5	25
52001070	SR 16/15	13 - 15	35	24 / 24	67.0	6.5	25
52001080	SR 21/15	13,5 - 15	46	30 / 30	79.0	7.0	25
52001090	SR 21/17	15 - 17	46	30 / 30	79.0	7.0	25
52001100	SR 21/19	17 - 19	46	30 / 30	79.0	7.0	25
52001110	SR 21/20	18 - 20	46	30 / 30	79.0	7.0	25
52001120	SR 29/20	18 - 20	59	40 / 41	91.0	8.0	10
52001130	SR 29/23	21 - 23	59	40 / 41	91.0	8.0	10
52001140	SR 29/25	23 - 25	59	40 / 41	91.0	8.0	10
52001150	SR 36/26	23 - 26	70	50 / 50	110.0	9.0	5
52001160	SR 36/30	27 - 30	70	50 / 50	110.0	9.0	5
52001170	SR 36/33	30 - 33	70	50 / 50	110.0	9.0	5
52001180	SR 36/35	32 - 35	70	50 / 50	110.0	9.0	5
52001190	SR 42/35	32 - 35	75	57 / 57	114.0	10.0	5
52001200	SR 42/38	35 - 38	75	57 / 57	114.0	10.0	5
52001210	SR 42/40	36 - 40	75	57 / 57	114.0	10.0	5
52001220	SR 48/40	36 - 40	83	64 / 64	119.0	10.0	1
52001230	SR 48/44	40 - 44	83	64 / 64	119.0	10.0	1

SKINDICHT® SR-SV



SKINDICHT® SR-SV

■ Benefits

- For high temperatures
- Resistant against oils, solvents, acids and chemicals
- Seawater-resistant
- High strain relief
- Robust

■ Application range

- Special cable gland with VITON® antikink sleeve. Our own reinforced acid-resistant VITON® receptacle does not show an aging effect even after a long usage period at a temperature of +165°C.
- Machine and turbine manufacturing
- Plant construction
- Laboratory

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Note

- Counter nut to be used SKINDICHT® SM
- EMC type on request

■ Technical data



Caution
Installation dimensions
see Appendix T21



On request
Available with long connection thread



Material
Body: Nickel plated brass
O-ring: FKM
Antikink protection: FKM



Degree of protection
IP 65

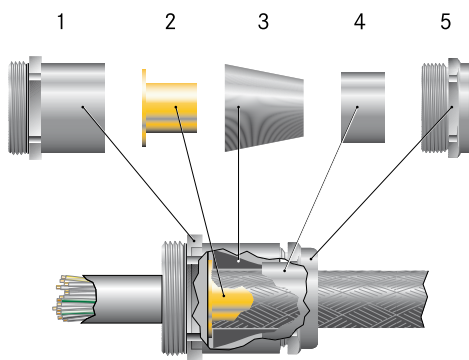
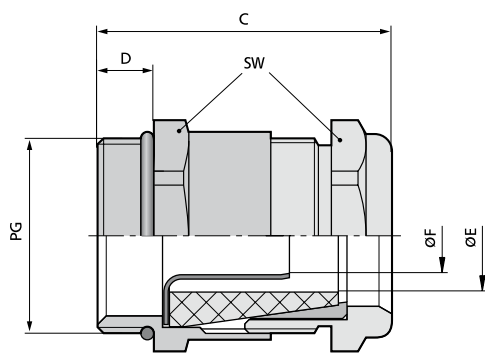


Range of temperature
-15°C up to +165°C

Part number	Part designation / size	Clamping range ØF mm	Max. fitting size for installation in mm	SW1 / SW2 mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINDICHT® SR-SV							
52023620	SR-SV 11/07	5,5 - 7	28	20 / 20	56,0	6,0	25
52023621	SR-SV 11/09	7,5 - 9	28	20 / 20	56,0	6,0	25
52023622	SR-SV 13/09	7,5 - 9	32	22 / 22	62,0	6,5	25
52023623	SR-SV 13/11	9 - 11	32	22 / 22	62,0	6,5	25
52023624	SR-SV 13/13	11 - 13	32	22 / 22	62,0	6,5	25
52023625	SR-SV 16/13	11,5 - 13	35	24 / 24	67,0	6,5	10
52023626	SR-SV 16/15	13 - 15	35	24 / 24	67,0	6,5	10
52023627	SR-SV 21/15	13,5 - 15	40	30 / 30	79,0	7,0	10
52023628	SR-SV 21/17	15 - 17	46	30 / 30	79,0	7,0	10
52023629	SR-SV 21/19	17 - 19	46	30 / 30	79,0	7,0	10

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SKINDICHT® SHVE



SKINDICHT® SHVE

Benefits

- Optimal low-resistance 360° screen contact
- High degree of protection
- High strain relief

Application range

- Brass gland for earthing, for applications where electrical interference fields may occur.
- Medical engineering
- Frequency converters
- Airports
- Measurement and control technology

Product features

- The allocation to the cable is made
- 1 fitting
- 2 earth sleeve
- 3 sealing cone

Approvals (Norm references)



Design

- 1 fitting
- 2 earth sleeve
- 3 sealing cone
- 4 cone brass
- 5 compression screw

Note

- Counter nut to be used SKINDICHT® SM
- For painted, anodised or powdered-coated housings, you will require our EMC counter nut SKINDICHT® SM-PE for best contact

Technical data



Caution

Installation dimensions
see Appendix T21



Material

Body: Nickel plated brass
Earthing sleeve: Bright brass
Special sealing cone: CR
O-ring: NBR



Degree of protection

IP 68 - 10 bar



Range of temperature

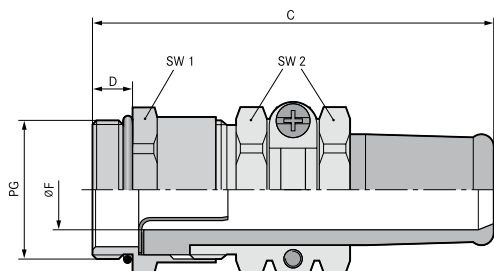
-20°C up to +80°C

Part number	Part designation / size	Outer sheath Ø mm min. / max.	Min. / max. inner sheath Ø in mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINDICHT® SHVE							
52010400	9/9/6/3,2	4.0 / 5,8	2,2 / 3,2	17	28.5	6.0	25
52010405	9/9/7/3,2	5.0 / 6,8	2,2 / 3,2	17	28.5	6.0	25
52010415	9/9/6/3,6	4.0 / 5,8	2,6 / 3,6	17	28.5	6.0	25
52010420	9/9/7/3,6	5.0 / 6,8	2,6 / 3,6	17	28.5	6.0	25
52010440	11/11/7/4,5	5.0 / 6,8	3,5 / 4,5	20	31.0	6.0	25
52010450	11/11/9/4,5	6,8 / 8,8	3,5 / 4,5	20	31.0	6.0	25
52010460	13,5/9/9/5	6,8 / 8,8	3,5 / 5,0	22	32.5	5.5	25
52010490	13,5/11/9/5	6,8 / 8,8	3,5 / 5,0	22	32.5	5.5	25
52005070	13,5/13,5/9/5	6,8 / 8,8	3,5 / 5,0	22	37.0	6.0	25
52010470	13,5/9/9/6	6,8 / 8,8	4,5 / 6,0	22	32.5	5.5	25
52010500	13,5/11/9/6	6,8 / 8,8	4,5 / 6,0	22	32.5	5.5	25
52005080	13,5/13,5/9/6	6,8 / 8,8	4,5 / 6,0	22	37.0	6.0	25
52010480	13,5/9/11/7	8,5 / 10,8	5,5 / 7,0	22	32.5	5.5	25
52010510	13,5/11/11/7	8,5 / 10,8	5,5 / 7,0	22	32.5	5.5	25
52005090	13,5/13,5/11/7	8,5 / 10,8	5,5 / 7,0	22	37.0	6.0	25
52010520	16/11/11/8	8,5 / 10,8	6,0 / 8,0	24	35.0	5.5	25
52010560	16/13,5/11/8	8,5 / 10,8	6,0 / 8,0	24	35.5	6.0	25
52005100	16/16/11/8	8,5 / 10,8	6,0 / 8,0	24	37.5	6.0	25
52010530	16/11/13/9	10,8 / 12,8	7,0 / 9,0	24	35.0	5.5	25
52010570	16/13,5/13/9	10,8 / 12,8	7,0 / 9,0	24	35.5	6.0	25
52005110	16/16/13/9	10,8 / 12,8	7,0 / 9,0	24	37.5	6.0	25
52010540	16/11/13/10	10,8 / 12,8	8,0 / 10,0	24	35.0	5.5	25
52010580	16/13,5/13/10	10,8 / 12,8	8,0 / 10,0	24	35.5	6.0	25
52005120	16/16/13/10	10,8 / 12,8	8,0 / 10,0	24	37.5	6.0	25
52010550	16/11/15/11	12,0 / 14,8	9,0 / 11,0	24	35.0	5.5	25
52010590	16/13,5/15/11	12,0 / 14,8	9,0 / 11,0	24	35.5	6.0	25
52005130	16/16/15/11	12,0 / 14,8	9,0 / 11,0	24	37.5	6.0	25
52010600	21/16/16/12	14,0 / 15,8	10,0 / 12,0	30	38.5	6.5	25
52005140	21/21/16/12	14,0 / 15,8	10,0 / 12,0	30	43.5	7.0	25
52010610	21/16/16/13	14,0 / 15,8	11,0 / 13,0	30	38.5	6.5	25
52005150	21/21/16/13	14,0 / 15,8	11,0 / 13,0	30	43.5	7.0	25
52010620	21/16/18/14	15,8 / 17,8	12,0 / 14,0	30	38.5	6.5	25
52005160	21/21/18/14	15,8 / 17,8	12,0 / 14,0	30	43.5	7.0	25
52010630	21/16/18/15	15,8 / 17,8	13,0 / 15,0	30	38.5	6.5	25
52005170	21/21/18/15	15,8 / 17,8	13,0 / 15,0	30	43.5	7.0	25
52010640	21/16/20/16	17,5 / 19,8	14,0 / 16,0	30	38.5	6.5	25
52005180	21/21/20/16	17,5 / 19,8	14,0 / 16,0	30	43.5	7.0	25
52005190	29/29/22/17	19,5 / 21,8	15,0 / 17,0	40	47.5	8.0	10
52005200	29/29/22/18	19,5 / 21,8	16,0 / 18,0	40	47.5	8.0	10
52005210	29/29/24/19	21,5 / 23,8	17,0 / 19,0	40	47.5	8.0	10
52005240	29/29/26/19	23,5 / 25,8	17,0 / 19,0	40	47.5	8.0	10

SKINDICHT® SRE



SKINDICHT® SRE



■ Benefits

- Perfect seal with antikink protection
- Optimal low-resistance 360° screen contact
- Cable protecting strain relief
- Gentle cable clamping
- High degree of protection

■ Application range

- Brass gland for earthing with additional antikin protection. For applications where electrical interference fields may accrue.
- Flexing machine parts
- Conveying and transport systems
- Production lines
- Measurement and control technology

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Note

- Counter nut to be used SKINDICHT® SM
- For painted, anodised or powdered-coated housings, you will require our EMC counter nut SKINDICHT® SM-PE for best contact

■ Technical data



Caution
Installation dimensions
see Appendix T21



On request
Available with longer connection thread



Material
Body: nickel plated brass
Earthing sleeve: plain brass
Anti-kink sleeve: CR/NBR
O-ring: NBR



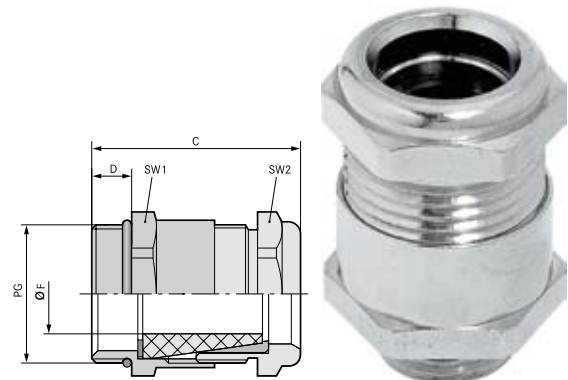
Degree of protection
IP 65



Range of temperature
-20°C up to +80°C

Part number	Part designation / size	Outer sheath Ø mm min. / max.	Min. / max. inner sheath Ø in mm	SW 1 / SW 2 mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINDICHT® SRE							
52010780	13,5/9/9/6	7,5 / 9,0	4,5 / 6,0	22 / 22	60,0	5,5	25
52010790	13,5/9/11/7	9,0 / 11,0	5,5 / 7,0	22 / 22	60,0	5,5	25
52010800	13,5/11/9/6	7,5 / 9,0	4,5 / 6,0	22 / 22	60,0	5,5	25
52010810	13,5/11/11/7	9,0 / 11,0	5,5 / 7,0	22 / 22	60,0	5,5	25
52005310	13,5/13,5/9/6	7,5 / 9,0	4,5 / 6,0	22 / 22	60,0	6,5	25
52005320	13,5/13,5/11/7	9,0 / 11,0	5,5 / 7,0	22 / 22	60,0	6,5	25
52010820	16/11/13/9	11,0 / 13,0	7,0 / 9,0	24 / 24	65,0	5,5	25
52010830	16/11/13/10	11,0 / 13,0	8,0 / 10,0	24 / 24	65,0	5,5	25
52010840	16/11/15/11	13,0 / 15,0	9,0 / 11,0	24 / 24	65,0	5,5	25
52010850	16/13,5/13/9	11,0 / 13,0	7,0 / 9,0	24 / 24	67,0	6,0	25
52010860	16/13,5/13/10	11,0 / 13,0	8,0 / 10,0	24 / 24	67,0	6,0	25
52010870	16/13,5/15/11	13,0 / 15,0	9,0 / 11,0	24 / 24	67,0	6,0	25
52005330	16/16/13/9	11,0 / 13,0	7,0 / 9,0	24 / 24	65,0	6,5	25
52005340	16/16/13/10	11,0 / 13,0	8,0 / 10,0	24 / 24	65,0	6,5	25
52005350	16/16/15/11	13,5 / 15,0	9,0 / 11,0	24 / 24	65,0	6,5	25
52010880	21/16/15/12	13,5 / 15,0	10,0 / 12,0	30 / 30	78,0	6,5	25
52010890	21/16/17/14	15,0 / 17,0	12,0 / 14,0	30 / 30	78,0	6,5	25
52010900	21/16/19/15	17,0 / 19,0	13,0 / 15,0	30 / 30	78,0	6,5	25
52010910	21/16/20/16	18,0 / 20,0	14,0 / 16,0	30 / 30	78,0	6,5	25
52005360	21/21/15/12	13,0 / 15,0	10,0 / 12,0	30 / 30	78,0	7,0	25
52005370	21/21/17/14	15,0 / 17,0	12,0 / 14,0	30 / 30	78,0	7,0	25
52005380	21/21/19/15	17,0 / 19,0	13,0 / 15,0	30 / 30	78,0	7,0	25
52005390	21/21/20/16	18,0 / 20,0	14,0 / 16,0	30 / 30	78,0	7,0	25
52005400	29/29/20/17	19,0 / 20,0	15,0 / 17,0	40 / 41	90,0	8,0	10
52005410	29/29/23/19	22,0 / 23,0	17,0 / 19,0	40 / 41	90,0	8,0	10
52005411	36/36/26/22	23,5 / 26,0	20,0 / 22,0	50 / 50	109,0	9,0	5
52005412	36/36/30/24	27,0 / 30,0	22,0 / 24,0	50 / 50	109,0	9,0	5
52003585	36/36/30/26	27,0 / 30,0	24,0 / 26,0	50 / 50	109,0	9,0	5
52005414	36/36/33/28	30,0 / 33,0	26,0 / 28,0	50 / 50	109,0	9,0	5
52023586	36/36/35/30	32,0 / 35,0	28,0 / 30,0	50 / 50	109,0	9,0	5

SKINDICHT® SHV



SKINDICHT® SHV

■ Benefits

- Water pressure-tight
- Gentle cable clamping
- Robust
- High strain relief

■ Application range

- Water pressure-tight cable gland with special conical sealing element.
- Pumps
- Floater switches

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Note

- Counter nut to be used SKINDICHT® SM
- Suitable accessories SKINDICHT® SHV sealing cones

■ Technical data

Caution
Installation dimensions
see Appendix T21

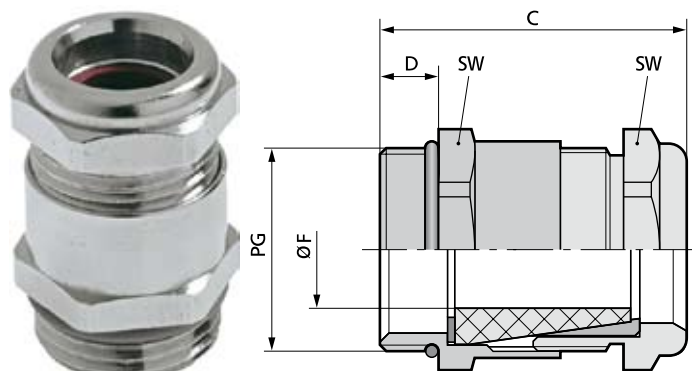
Material
Body: Nickel plated brass
Sealing cone: CR
O-ring: NBR

Degree of protection
IP 68 - 10 bar

Range of temperature
-20°C up to +80°C

Part number	Part designation / size	Clamping range ØF mm	SW 1/2 mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINDICHT® SHV						
52002530	SHV 7/7/5	3,8 - 4,8	14	26,0	5,0	50
52002550	SHV 9/9/6	4,8 - 5,8	17	28,5	6,0	50
52002540	SHV 9/9/7	5,8 - 6,8	17	28,5	6,0	50
52002570	SHV 11/11/7	5,8 - 6,8	20	31,0	6,0	25
52002560	SHV 11/11/9	6,8 - 8,8	20	31,0	6,0	25
52010650	SHV 13,5/9/9	6,5 - 8,8	22	33,0	6,5	25
52010660	SHV 13,5/9/11	8,5 - 10,8	22	33,0	6,5	25
52010670	SHV 13,5/11/9	6,8 - 8,8	22	33,0	6,5	25
52010680	SHV 13,5/11/11	8,5 - 10,8	22	33,0	6,5	25
52002600	SHV 13,5/13,5/9	6,8 - 8,8	22	33,0	6,5	25
52002590	SHV 13,5/13,5/11	8,5 - 10,8	22	33,0	6,5	25
52010690	SHV 16/11/11	8,5 - 10,8	24	35,0	6,5	25
52010700	SHV 16/11/13	10,8 - 12,8	24	35,0	6,5	25
52010710	SHV 16/11/15	13,8 - 14,8	24	35,0	6,5	25
52010720	SHV 16/13,5/11	8,5 - 10,8	24	35,0	6,5	25
52010730	SHV 16/13,5/13	10,8 - 12,8	24	35,0	6,5	25
52010740	SHV 16/13,5/15	13,8 - 14,8	24	35,0	6,5	25
52002640	SHV 16/16/11	8,5 - 10,8	24	35,0	6,5	25
52002630	SHV 16/16/13	10,8 - 12,8	24	35,0	6,5	25
52002620	SHV 16/16/15	13,8 - 14,8	24	35,0	6,5	25
52010750	SHV 21/16/16	13,3 - 15,6	30	40,0	7,0	25
52010760	SHV 21/16/18	15,8 - 17,8	30	38,0	7,0	25
52010770	SHV 21/16/20	17,5 - 19,8	30	38,0	7,0	25
52002670	SHV 21/21/16	14,8 - 15,8	30	38,0	7,0	25
52002660	SHV 21/21/18	15,8 - 17,8	30	38,0	7,0	25
52002650	SHV 21/21/20	17,5 - 19,8	30	38,0	7,0	25
52002710	SHV 29/29/22	19,5 - 21,8	40	44,5	8,0	10
52002700	SHV 29/29/24	21,8 - 23,8	40	44,5	8,0	10
52002690	SHV 29/29/26	23,8 - 25,8	40	44,5	8,0	10

SKINDICHT® SHV VITON®



SKINDICHT® SHV VITON®

■ Benefits

- For high temperatures
- Resistant against oils, solvents, acids and chemicals
- Water pressure-tight
- High strain relief
- Robust

■ Application range

- Water pressure-tight, high temperature resistant cable gland with special conical VITON® sealing element.
- Brickyard
- Sewage treatment plants
- Car wash site

■ Approvals (Norm references)



■ Design

- 1 fitting
- 2 washers
- 3 Viton® sealing cone
- 4 brass cone
- 5 compression screw

■ Note

- Counter nut to be used SKINDICHT® SM

■ Technical data



Caution
Installation dimensions
see Appendix T21



Material
Body: Nickel plated brass
Cone seal: FKM
O-ring: FKM



Degree of protection
IP 68 - 10 bar

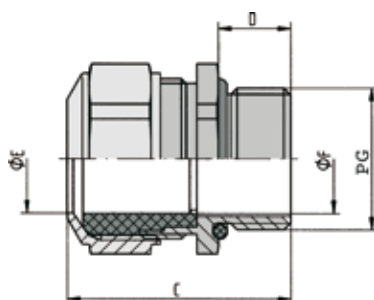


Range of temperature
-15°C up to +200°C

Part number	Part designation / size	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINDICHT® SHV VITON®						
52024934	SHV-V 7/7/5	3,8 - 4,8	14	26,0	5,0	50
54000015	SHV-V 9/9/6	4,8 - 5,8	17	28,5	6,0	50
52024935	SHV-V 9/9/7	5,8 - 6,8	17	28,5	6,0	50
52024936	SHV-V 11/11/7	5,8 - 6,8	20	31,0	6,0	25
52024937	SHV-V 11/11/9	6,8 - 8,8	20	31,0	6,0	25
52024970	SHV-V 13,5/9/11	8,5 - 10,8	22	33,0	6,5	25
52024968	SHV-V 13,5/11/9	6,8 - 8,8	22	33,0	6,5	25
52024969	SHV-V 13,5/11/11	8,5 - 10,8	22	33,0	6,5	25
52024961	SHV-V 13,5/13,5/9	6,8 - 8,8	22	33,0	6,5	25
52024962	SHV-V 13,5/13,5/11	8,5 - 10,8	22	33,0	6,5	25
52024971	SHV-V 16/11/13	10,8 - 12,8	24	35,0	6,5	25
52024973	SHV-V 16/13,5/13	10,8 - 12,8	24	35,0	6,5	25
52024964	SHV-V 16/16/13	10,8 - 12,8	24	35,0	6,5	25
52024965	SHV-V 16/16/15	13,8 - 14,8	24	35,0	6,5	25
52024966	SHV-V 21/21/18	15,8 - 17,8	30	38,0	7,0	25
52024967	SHV-V 21/21/20	17,5 - 19,8	30	38,0	7,0	25
52024974	SHV-V 29/29/22	19,5 - 21,8	40	44,5	8,0	10

Viton® is a registered trademark of DuPont de Nemours

SKINDICHT® CN



SKINDICHT® CN

Benefits

- For high temperatures
- Resistant against oils, solvents, acids and chemicals
- Sea water resistant
- For high mechanical stress
- Increased corrosion resistance

Application range

- Chromium nickel steel cable gland with VITON® seal, specially designed for use under tough conditions.
- Pharmaceutical, petrochemical industry
- Off shore
- Wind energy systems
- Brickyard

Approvals (Norm references)



Design

- PG connection thread

Note

- Suitable counter nut SKINDICHT® SM CrNi please see chart

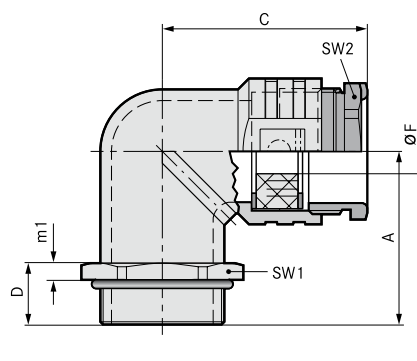
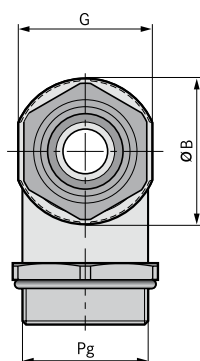
Technical data

- Caution**
Installation dimensions see Appendix T21
- On request**
TPE seal
- Material**
Body: Chrome-nickel steel in accordance with DIN, material no. 1.4305
Seal: FPM
O-ring: FPM
- Degree of protection**
IP 68
- Range of temperature**
-25°C up to +200°C

Part number	Part designation / size	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINDICHT® CN						
52032520	CN 9	6 - 10	18	28.0	10.0	5
52032525	CN 11	5 - 12	22	32.0	10.0	5
52032540	CN 13,5	8 - 15	24	34.0	10.0	5
52032550	CN 16	8 - 15	24	34.0	10.0	5
52032560	CN 21	12,5 - 20,5	30	42.0	12.0	5
52032570	CN 29	19 - 27,5	41	53.0	12.0	5

Viton® is a registered trademark of DuPont de Nemours

SKINDICHT® RWV



SKINDICHT® RWV

■ Benefits

- Strain relief
- Sealed by incised sealing ring
- Corrosion resistant
- Decrease of installation height
- Sea water resistant

■ Application range

- Angle glands are used wherever cables have to run in parallel to the housing wall.
- Drives
- Machine and apparatus construction
- Plant engineering
- Light and sound applications

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Note

- Counter nut to be used SKINDICHT® SM
- For combination with other SKINDICHT® or SKINTOP® cable glands, we propose our SKINDICHT® RWV without incised sealing ring and compression screw

■ Technical data



Material

Body: Cast zinc
Compression screw and hexagon nut; brass, nickel plated
Incised sealing ring: CR
O-ring: NBR



Degree of protection

IP 55



Range of temperature

-20°C up to +80°C
Without incised sealing ring: -20°C up to +100°C

Part number	Part designation / size	A mm	G mm	ØB mm	Incised sealing ring ØF, mm	Overall length C mm	Thread length D mm	SW1 / SW2 mm	Pieces / PU
SKINDICHT® RWV									
52004180	RWV 7	20.5	14	15.3	5	26.0	8.5	15.0 / 13.0	25
52004190	RWV 9	23.5	17	18.3	5/8	28.0	9.5	18.0 / 15.0	25
52004200	RWV 11	26.0	20	21.9	7 / 10 / 12,5	31.5	10.0	21.0 / 18.0	25
52004210	RWV 13,5	28.5	22	24.0	7 / 10,5 / 13 / 16	34.5	10.5	23.0 / 20.0	25
52004220	RWV 16	31.0	24	26.1	8 / 10,5 / 13,5 / 16	35.5	11.0	26.0 / 22.0	10
52005420	RWV 21	33.5	30	32.5	11 / 15 / 18 / 20	42.5	11.5	32.0 / 28.0	10
52004225	RWV 29	43.0	40	42.0	19 / 23 / 27 / 31	49.0	13.0	41.0 / 37.0	10
SKINDICHT® RWV without E+D									
52024020	RWV 7	20.5	14	15.3		20.2	8.5	15.0 / 13.0	25
52023970	RWV 9	23.5	17	18.3		21.8	9.5	18.0 / 15.0	25
52023980	RWV 11	26.0	20	21.9		24.9	10.0	21.0 / 18.0	25
52023990	RWV 13,5	28.5	22	24.0		27.4	10.5	23.0 / 20.0	25
52024000	RWV 16	31.0	24	26.1		28.5	11.0	26.0 / 22.0	10
52024010	RWV 21	33.5	30	32.5		34.8	11.5	32.0 / 28.0	10
52024015	RWV 29	43.0	40	42.0		41.2	13.0	41.0 / 37.0	10

SKINDICHT® SE



SKINDICHT® SE

■ Benefits

- Sealed by incised sealing ring
- Corrosion resistant
- Easy to assemble/install
- Completely safe cable entry
- Low overall height

■ Application range

- Where high mechanical stress is given
- Everywhere where no connection thread is given

■ Approvals (Norm references)



■ Design

- PG 16 - 21 with 2 screw holes
- PG 29 - 36 with 4 screw holes

■ Note

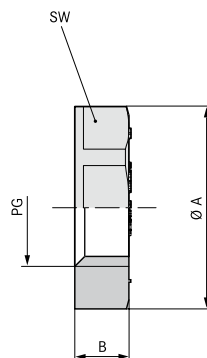
- For combination with other SKINDICHT® or SKINTOP® cable glands, we propose our SKINDICHT® SE without incised sealing ring and compression screw

■ Technical data

	Material
	Body: Cast zinc, grey, hammertone enamelled Incised sealing ring: CR O-ring: NBR Compression screw: Nickel plated brass
	Degree of protection IP 55
	Range of temperature -20°C up to +80°C

Part number	Part designation / size	Incised sealing ring ØF, mm	SW mm	Overall length in mm	Overall width mm	Overall height mm	Pieces / PU
SKINDICHT® SE							
52004130	SE 16	8/10,5/13,5/16	22	49.2	42	36.0	10
52004140	SE 21	11/15/18/20	28	68.1	60	52.5	10
52005430	SE 29	19/23/27/31	37	83.6	66	54.0	5
52004150	SE 36	25/28/31/35	47	99.6	85	73.0	1
SKINDICHT® SE without E+D							
52024090	SE 16			42.0	42	36.0	10
52024100	SE 21			60.0	60	52.5	10
52024110	SE 29			76.0	66	54.0	5
52024120	SE 36			90.0	85	73.0	1

SKINDICHT® GMK



SKINDICHT® GMK

■ Benefits

- Bearing surface avoids scratchings on the housing while mounting with an wrench

■ Application range

- For locking of SKINDICHT® cable glands in boreholes without thread.

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Note

- For high tightening torques and mechanical stability we refer to SKINTOP® GMP-GL counter nuts

■ Technical data



Colour delivered
RAL 7035 light grey



Material
Polystyrene



Range of temperature
-20°C up to +70°C

Part number	Part designation / size	B in mm	SW mm	Pieces / PU
SKINDICHT® GMK				
52000110	GMK 7	5	19	100
52000120	GMK 9	5	22	100
52000130	GMK 11	5	24	100
52000140	GMK 13,5	6	27	100
52000150	GMK 16	6	30	100
52000160	GMK 21	7	36	50
52000170	GMK 29	7	46	50
52000180	GMK 36	8	60	25
52000190	GMK 42	8	65	25
52000200	GMK 48	8	70	25

SKINDICHT® SM / SKINDICHT® SM-PE



■ Benefits

SKINDICHT® SM-PE

- Cutting edges cut through the insulating layer, thus guaranteeing an optimum EMC contact
- Suitable for metric glands used in earthing and EMC applications

■ Application range

SKINDICHT® SM

- Needed wherever a gland has to be countered or thin walled housings only allow through holes.

SKINDICHT® SM-PE

- For lacquered, anodised and powder coated housings.

■ Approvals (Norm references)



■ Design

- PG connection thread

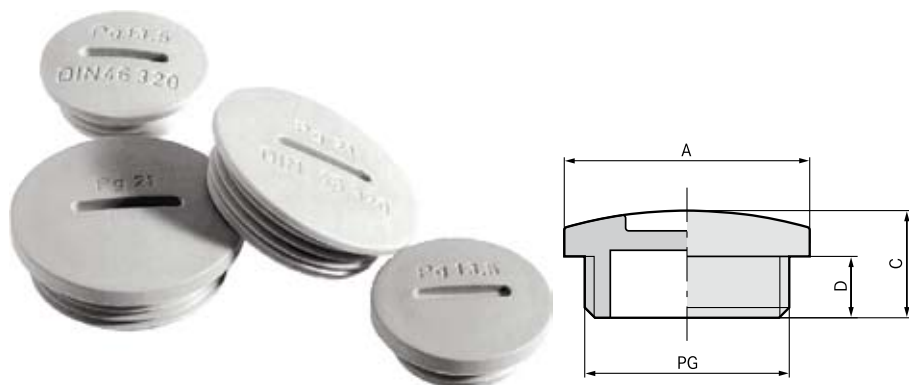
■ Technical data



Material
Nickel-plated brass

Part number	Part designation / size	Height mm	SW mm	Pieces / PU
SKINDICHT® SM				
52003490	SM 7	2.8	15	100
52003500	SM 9	2.8	18	100
52003510	SM 11	3	21	100
52003520	SM 13,5	3	23	100
52003530	SM 16	3	26	100
52003540	SM 21	3.5	32	50
52003550	SM 29	4	41	50
52003560	SM 36	5	51	25
52003570	SM 42	5	60	25
52003580	SM 48	5.5	64	25
SKINDICHT® SM-PE				
52103200	SM-PE 7	4.7	15	100
52103210	SM-PE 9	4.7	18	100
52103220	SM-PE 11	4.7	21	100
52103230	SM-PE 13,5	4.7	23	100
52103240	SM-PE 16	4.7	26	100
52103250	SM-PE 21	5.2	32	50
52103260	SM-PE 29	5.7	41	50
52103270	SM-PE 36	6.7	51	50

SKINDICHT® BLK / BLK-GL



SKINDICHT® BLK / BLK-GL

■ Benefits

- Used wherever threads previously cut must be closed

■ Application range

- Switch cabinet building
- Junction box
- Connection box

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Note

- SKINDICHT® BLK-GL offers high stability due to glass fibre reinforcement

■ Technical data



On request

With O-ring



Colour delivered

RAL 7035 light grey



Material

BLK: polystyrene

BLK-GL: polyamide glass fibre reinforced



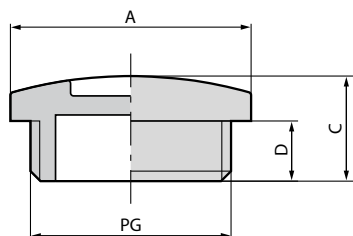
Range of temperature

BLK: -20°C up to +70°C

BLK-GL: -40°C up to +100°C

Part number	Part designation / size	Thread length D mm	Pieces / PU
SKINDICHT® BLK			
52005949	BLK 7	6.0	100
52005950	BLK 9	6.0	100
52005960	BLK 11	6.0	100
52005970	BLK 13,5	6.0	100
52005980	BLK 16	6.0	100
52005990	BLK 21	8.0	50
52006000	BLK 29	8.0	50
52006010	BLK 36	10.0	25
52006020	BLK 42	10.0	25
52006030	BLK 48	12.0	25
SKINDICHT® BLK-GL			
52024848	BLK - GL 7	6.0	100
52024849	BLK - GL 9	6.0	100
52024850	BLK - GL 11	6.0	100
52024851	BLK - GL 13,5	6.0	100
52024852	BLK - GL 16	6.0	100
52024853	BLK - GL 21	8.0	50
52024854	BLK - GL 29	8.0	50
52024855	BLK - GL 36	10.0	25
52024856	BLK - GL 42	10.0	25
52024857	BLK - GL 48	12.0	25

SKINDICHT® BL



SKINDICHT® BL

Benefits

- Used wherever threads previously cut must be closed
- Assembling with screw driver

Application range

- Machine and apparatus construction
- Drives

Approvals (Norm references)



Design

- PG connection thread

Technical data

Material
Blind plugs: Nickel plated brass
O-ring: NBR

Degree of protection
IP 54
IP 68 with O-ring

Part number	Part designation / size	Pieces / PU
SKINDICHT® BL		
52002680	BL 7	100
52003390	BL 9	100
52003400	BL 11	100
52003410	BL 13,5	100
52003420	BL 16	100
52003430	BL 21	50
52003440	BL 29	50
52003450	BL 36	25
52003460	BL 42	10
52002790	BL 48	10
SKINDICHT® BL with O-ring		
54001610	BL 7 m. O-Ring	100
54000071	BL 9 m. O-Ring	100
54000040	BL 11 m. O-Ring	100
54001630	BL 13,5 m. O-Ring	100
54001640	BL 16 m. O-Ring	100
54001660	BL 21 m. O-Ring	50
54001620	BL 29 m. O-Ring	50
54001650	BL 36 m. O-Ring	25
54001670	BL 42 m. O-Ring	10
54001680	BL 48 m. O-Ring	10

SKINDICHT® KU, KUS, KUK



1 SKINDICHT® KU, KUS, KUK

■ Benefits

- Enables the use of cable glands with smaller connection threads than the existing threaded holes
- Glas fibre reinforced for maximum mechanical stability

■ Application range

- Machines
- Devices
- Housings

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Design

- SKINDICHT® KU with hexagon and flat design
- SKINDICHT® KUS with hexagon and larger height
- SKINDICHT® KUK with knurled heads

■ Technical data



Colour delivered
RAL 7035 light grey



Material
Polyamide, glass fibre reinforced



Range of temperature
KU, KUS: -40°C up to +100°C
KUK: -20°C up to +80°C

Part number	Part designation / size Outer / inner	Pieces / PU
SKINDICHT® KU		
51730010	KU 11/7	50
52025100	KU 13,5/7	50
52025110	KU 16/9	50
52025120	KU 21/11	25
51730040	KU 21/13,5	25
52025130	KU 29/13,5	25
51730050	KU 29/16	25
52025140	KU 36/16	25
52025150	KU 36/21	25
52025050	KU 36/29	25
52025160	KU 42/21	25
52025170	KU 42/29	25
52025060	KU 42/36	25
52025180	KU 48/29	25
52025190	KU 48/36	25
52025070	KU 48/42	25
SKINDICHT® KUS		
52025040	KUS 9/7	50
51730060	KUS 11/9	50
51730070	KUS 13,5/11	50
51730080	KUS 16/13,5	50
SKINDICHT® KUK		
51730020	KUK 13,5/9	50
51730025	KUK 16/9	50
51730030	KUK 16/11	50
51730035	KUK 21/13,5	50
51730090	KUK 21/16	50
51730100	KUK 29/21	25
51730110	KUK 36/29	25

SKINDICHT® MR

Benefits

- Enables the use of cable glands with smaller connection threads than the existing threaded holes

Application range

- Machines
- Devices
- Housings

Approvals (Norm references)



Design

- PG connection thread

Technical data



Material
Nickel-plated brass



Part number	Part designation / size Outer / inner	Pieces / PU
SKINDICHT® MR		
52003750	MR 9/7	100
52003760	MR 11/7	100
52003770	MR 11/9	100
52003780	MR 13,5/7	100
52003790	MR 13,5/9	100
52003800	MR 13,5/11	100
52003810	MR 16/7	100
52003820	MR 16/9	100
52003830	MR 16/11	100
52003840	MR 16/13,5	100
52003850	MR 21/11	50
52003860	MR 21/13,5	50
52003870	MR 21/16	50
52003880	MR 29/13,5	50
52003890	MR 29/16	50
52003900	MR 29/21	50
52003910	MR 36/16	25
52003920	MR 36/21	25
52003930	MR 36/29	25
52003940	MR 42/29	10
52003950	MR 42/36	10
52003970	MR 48/36	10
52003980	MR 48/42	10

SKINDICHT® EKU



■ Benefits

- Enables the use of cable glands with larger connection threads than the existing threaded holes
- Assembling with wrench
- Bearing surface avoids scratchings on the housing while mounting with an wrench

■ Application range

- Machines
- Devices
- Housings

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Technical data



Colour delivered
RAL 7035 light grey



Material
Polyamide, glass fibre reinforced



Range of temperature
-40°C up to +100°C

Part number	Part designation / size Outer / inner	Pieces / PU
SKINDICHT® EKU		
52025200	EKU 7/9	100
51731000	EKU 9/11	100
51731010	EKU 11/13,5	100
51731020	EKU 13,5/16	100
51731030	EKU 16/21	50
51731040	EKU 21/29	25
52025210	EKU 29/36	25
52025220	EKU 36/42	25
52025230	EKU 42/48	25

SKINDICHT® ME



■ Benefits

- Enables the use of cable glands with larger connection threads than the existing threaded holes

■ Application range

- Industrial connectors
- Devices
- Housings
- Machines

■ Approvals (Norm references)



■ Design

- PG connection thread

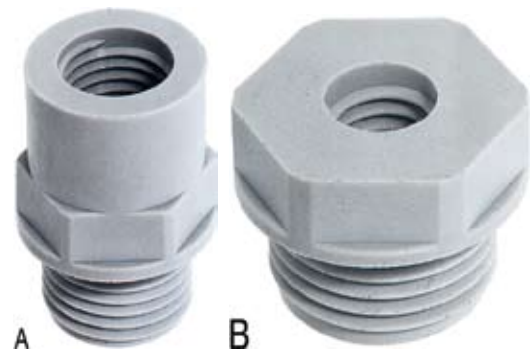
■ Technical data



Material
Nickel-plated brass

Part number	Part designation / size Outer / inner	Pieces / PU
SKINDICHT® ME		
52003990	ME 7/9	100
52004000	ME 9/11	100
52004010	ME 9/13,5	100
52004020	ME 11/13,5	100
52004030	ME 11/16	100
52004040	ME 11/21	100
52004050	ME 13,5/16	100
52004060	ME 13,5/21	50
52004070	ME 16/21	50
52004080	ME 16/29	50
52004090	ME 21/29	50
52004100	ME 29/36	50
52004110	ME 36/42	10
52004120	ME 42/48	10

SKINDICHT® A-PG/M



SKINDICHT® A-PG/M

■ Benefits

- Adapter from a PG outer thread to a metric inner thread

■ Application range

- Housings
- Industrial connectors
- Machines

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Design

- Form A = high
- Form B = flat

■ Technical data

RAL	Colour delivered RAL 7035 light grey
	Material Polyamide, glass fibre reinforced
	Range of temperature -40°C up to +100°C

Part number	Form	Thread, male PG	Thread, female M2	SW mm	Pieces / PU
SKINDICHT® A-PG/M					
52100320	A	PG 7	12 x 1,5	16	25
52100321	A	PG 7	16 x 1,5	20	25
52100322	A	PG 9	12 x 1,5	20	25
52100323	A	PG 9	16 x 1,5	20	25
52100324	A	PG 9	20 x 1,5	24	25
52100325	A	PG 11	16 x 1,5	22	25
52100326	A	PG 11	20 x 1,5	24	25
52100327	A	PG 11	25 x 1,5	29	25
52100328	A	PG 13,5	16 x 1,5	24	25
52100329	A	PG 13,5	20 x 1,5	24	25
52100330	A	PG 13,5	25 x 1,5	29	25
52100331	A	PG 16	20 x 1,5	27	25
52100332	A	PG 16	25 x 1,5	29	25
52100333	A	PG 16	32 x 1,5	36	25
52100334	A	PG 21	25 x 1,5	33	10
52100335	A	PG 21	32 x 1,5	36	10
52100336	A	PG 21	40 x 1,5	46	10
52100337	B	PG 29	32 x 1,5	42	10
52100338	A	PG 29	40 x 1,5	46	10
52100339	A	PG 29	50 x 1,5	55	10
52100340	B	PG 36	40 x 1,5	53	10
52100341	A	PG 36	50 x 1,5	55	10
52100342	A	PG 36	63 x 1,5	68	10
52100343	B	PG 42	40 x 1,5	60	5
52100344	A	PG 42	50 x 1,5	60	5
52100345	A	PG 42	63 x 1,5	68	5
52100346	B	PG 48	50 x 1,5	65	5
52100347	A	PG 48	63 x 1,5	68	5

SKINDICHT® MA-PG/M



SKINDICHT® MA-PG/M

■ Benefits

- Adapter from a PG outer thread to a metric inner thread

■ Application range

- Housings
- Industrial connectors
- Machines

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Design

- Form A top: knurl
- Form B bottom: smooth

■ Technical data

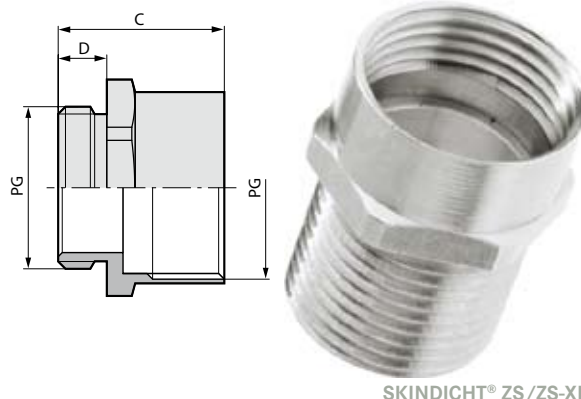


Material

Nickel-plated brass

Part number	Form	PG size	Thread, female M2	Pieces / PU
SKINDICHT® MA-PG/M				
52104490	B	7	12 x 1,5	100
52104491	B	9	16 x 1,5	50
52104492	A	11	16 x 1,5	50
52104493	B	11	20 x 1,5	50
52104494	B	13,5	20 x 1,5	50
52104495	A	16	20 x 1,5	50
52104496	B	16	25 x 1,5	50
52104497	A	21	20 x 1,5	50
52104498	A	21	25 x 1,5	50
52104499	B	21	32 x 1,5	50
52104500	A	29	25 x 1,5	25
52104501	A	29	32 x 1,5	25
52104502	B	29	40 x 1,5	10
52104503	A	36	40 x 1,5	10

SKINDICHT® ZS/ZS-XL



SKINDICHT® ZS/ZS-XL

■ Benefits

- Allows the use of PG parts in metric threads
- Assembling with wrench

■ Application range

- Hexagonal fitting from a PG outer thread to a PG inner thread.
- Machines
- Devices
- Housings

■ Approvals (Norm references)



■ Design

- PG connection thread

■ Note

- SKINDICHT® ZS-XL offers a long metric connection thread

■ Technical data



Material
Nickel-plated brass

Part number	Part designation / size	SW mm	Thread length D mm	Pieces / PU
SKINDICHT® ZS				
52100010	ZS 7	14	5.0	100
52100020	ZS 9	17	6.0	100
52100030	ZS 11	20	6.0	100
52100040	ZS 13,5	22	6.5	100
52100050	ZS 16	24	6.5	50
52100060	ZS 21	30	7.0	50
52100070	ZS 29	40	8.0	25
52100080	ZS 36	50	9.0	10
52100090	ZS 42	57	10.0	10
52100100	ZS 48	64	10.0	10
SKINDICHT® ZS-XL				
52023149	ZS 7 round	14	15.0	100
52020940	ZS 9	17	15.0	100
52020930	ZS 11	20	15.0	100
52020950	ZS 13,5	22	15.0	100
52020960	ZS 16	24	15.0	50
52020970	ZS 21	30	15.0	50
52020980	ZS 29	40	15.0	25
52020990	ZS 36	50	15.0	10
52021000	ZS 42	57	15.0	10
52021010	ZS 48	64	15.0	10

SKINDICHT® STK



■ Benefits

- Prevents dust and dirt from penetrating inside the housing

■ Application range

- This dust protection can be placed under the cap nut of the SKINTOP® cable glands.

■ Approvals (Norm references)



■ Note

- Delivery will be in max. possible packing unit, minimum order quantity is one packing unit

■ Technical data



Colour delivered
White



Material
PVC



Range of temperature
-20°C up to +80°C

Part number	Part designation / size	Thread, male PG	Suitable for SKINDICHT® SVRN-M, SHZ-M, SKZ-M, SVR-M, SVRE-M, SHVE-M, SHV-M	Pieces / PU
SKINDICHT® STK				
52020818	STK 7	7	M 12	500
52020820	STK 9	9	M 16	500
52020830	STK 11	11	M 20/11	250
52020840	STK 13,5	13,5	M 20/13,5	250
52020850	STK 16	16	M 20/16	250
52020860	STK 21	21	M 25	250
52020870	STK 29	29	M 32	100
52020880	STK 36	36	M 40	100
52020890	STK 42	42	M 50	50
52020900	STK 48	48	M 63	50

SKINDICHT® E

Benefits

- One seal for several clamping ranges
- Rings can be individually adapted to various cable diameters

Application range

- Incised sealing ring for SKINDICHT® cable glands

Approvals (Norm references)



Note

- Delivery will be in max. possible packing unit, minimum order quantity is one packing unit

Technical data

	Colour delivered Black
	Material CR
	Range of temperature -20°C up to +80°C



Part number	Part designation / size	Outer diameter x bores mm	Thickness in mm	Pieces / PU
SKINDICHT® E				
52005780	E 9	13,5 x 5/8	5.5	250
52003690	E11	16,5 x 7/10/12,5	6.0	250
52003700	E 13,5	18,5 x 7/10,5/13/16	6.5	250
52003710	E 16	20,5 x 8/10,5/13,5/16	7.5	250
52003720	E 21	26,0 x 11/15/18/20	8.0	100
52003730	E 29	35,0 x 19/23/27/31	9.5	100
52003740	E 36	45,0 x 25/28/31/35	12.0	50
52005790	E 42	52,0 x 35,5/39/42,5/46	14.0	50
52005800	E 48	57,0 x 40,5/44/47/50,5	14.0	50

Benefits

- One seal for several clamping ranges
- Rings can be individually adapted to various cable diameters
- For high temperatures
- Resistant against oils, solvents, acids and chemicals

Application range

- Incised sealing ring made of VITON® for SKINDICHT® cable glands

Approvals (Norm references)



Note

- Delivery will be in max. possible packing unit, minimum order quantity is one packing unit

Technical data

	Colour delivered red brown
	Material FKM
	Range of temperature -10°C up to +200°C



Part number	Part designation / size	Outer diameter x bores mm	Thickness in mm	Pieces / PU
SKINDICHT® EV				
52010340	EV 11	7/10/12,5	6.0	50
52010350	EV 13,5	7/10,5/13/16	6.5	50
52010360	EV 16	8/10,5/13,5/16	7.5	50
52010370	EV 21	11/15/18/20	8.0	25
52010380	EV 29	19/23/27/31	9.5	25
52010390	EV 36	25/28/31/35	12.0	25
52010410	EV 42	35,5/39/42,5/46	14.0	25

Viton® is a registered trademark of DuPont de Nemours

Benefits

- Resistant against oil, dust and water

Application range

- Used for reliable sealing against oil, dust and water at the connection thread of a gland or similar components.

Approvals (Norm references)



Note

- Delivery will be in max. possible packing unit, minimum order quantity is one packing unit

Technical data

	Colour delivered Black
	Material NBR
	Range of temperature -20°C up to +100°C



SKINDICHT® O-Ring Perbunan® PG

Part number	Part designation / size	Internal Ø x Thickness Ø in mm	Pieces / PU
SKINDICHT® O-Ring Perbunan®			
53001010	O 7	10.0 x 1.5	100
53102011	O 9	13.0 x 1.5	100
53001020	O 11	16.0 x 1.5	100
52005740	O 13,5	18.0 x 1.5	100
53001030	O 16	20.0 x 1.5	100
52005750	O 21	26.0 x 2.0	100
53001040	O 29	34.0 x 2.0	50
52005760	O 36	44.0 x 2.0	50
53001050	O 42	50.0 x 2.0	50
52005770	O 48	55.0 x 2.0	50

Perbunan® is a registered trademark of BAYER AG

SKINDICHT® O-Ring Viton® PG



Benefits

- For high temperatures
- Resistant against oils, solvents, acids and chemicals

Application range

- Used for reliable sealing against oil, dust and water at the connection thread of a gland or similar components.

Approvals (Norm references)



Note

- Delivery will be in max. possible packing unit, minimum order quantity is one packing unit

Technical data



Colour delivered
Green



Material
FKM



Range of temperature
-20°C up to +200°C

Part number	Part designation / size	Internal Ø x Thickness Ø in mm	Pieces / PU
SKINDICHT® O-Ring Viton®			
52023607	O 7	10.0 x 1.5	100
52122011	O 9	13.0 x 1.5	100
52023602	O 11	16.0 x 1.5	100
52023601	O 13,5	18.0 x 1.5	100
52023603	O 16	20.0 x 1.5	50
52023604	O 21	26.0 x 2.0	50
52023606	O 29	34.0 x 2.0	50
52023608	O 36	44.0 x 2.0	25
52023609	O 42	50.0 x 2.0	25
52023611	O 48	55.0 x 2.0	25

Viton® is a registered trademark of DuPont de Nemours

SKINDICHT® JT PTFE PG



Benefits

- Resistant against oil, water, alkaline solutions, acids, solvents...
- For use with foodstuffs

Application range

- PTFE sealing disks for SKINTOP® and SKINDICHT® cable glands

Approvals (Norm references)



Note

- Delivery will be in max. possible packing unit, minimum order quantity is one packing unit

Technical data



Colour delivered
White



Material
PTFE



Range of temperature
-120°C up to +250°C
short term up to +300°C

Part number	Part designation / size	Internal Ø / External Ø in mm	Thickness in mm	Pieces / PU
SKINDICHT® PTFE				
53801035	JT 7	12 / 16	2.0	100
53801045	JT 9	15 / 19	2.0	100
53801055	JT 11	18 / 22	2.0	100
53801065	JT 13,5	20 / 25	2.0	100
53801075	JT 16	22 / 27	2.0	100
53801085	JT 21	28 / 33	3.0	50
53801095	JT 29	37 / 43	3.0	50
53801105	JT 36	47 / 55	3.0	25
53801115	JT 42	54 / 63	3.0	25
53801125	JT 48	59 / 69	3.0	25

SKINDICHT® EH

Benefits

- Alternative earthing sleeves

Application range

- Earthing sleeve for SKINDICHT® SHVE and SKINDICHT® SRE.

Approvals (Norm references)



Note

- Allocation example, earthing sleeve for suitable gland
- SKINDICHT® EH 13.5/5 fits SKINDICHT® SHVE13.5/9/9/5.
- Delivery will be in max. possible packing unit, minimum order quantity is one packing unit

Technical data



Material
Brass, blank



Part number	PG size / clear opening	Inner Ø in mm	Flange Ø mm	Length in mm	Pieces / PU
SKINDICHT® EH					
52010980	EH 9 / 3.2	3.2	13.3	11.0	100
52010985	EH 9 / 3.6	3.6	13.3	11.0	100
52010996	EH 11 / 4.5	4.5	16.7	9.0	100
52010000	EH 13,5 / 5.0	5.0	18.5	14.0	100
52010010	EH 13,5 / 6.0	6.0	18.5	14.0	100
52010020	EH 13,5 / 7.0	7.0	18.5	14.0	100
52010030	EH 16 / 8.0	8.0	20.5	14.0	50
52010040	EH 16 / 9.0	9.0	20.5	14.0	50
52010050	EH 16 / 10.0	10.0	20.5	14.0	50
52010060	EH 16 / 11.0	11.0	20.5	14.0	50
52010070	EH 21 / 12.0	12.0	26.0	16.0	50
52010080	EH 21 / 13.0	13.0	26.0	16.0	50
52010090	EH 21 / 14.0	14.0	26.0	16.0	50
52010100	EH 21 / 15.0	15.0	26.0	16.0	50
52010110	EH 21 / 16.0	16.0	26.0	16.0	50
52010120	EH 29 / 17.0	17.0	35.0	18.0	25
52010130	EH 29 / 18.0	18.0	35.0	18.0	25
52010140	EH 29 / 19.0	19.0	35.0	18.0	25
52010161	EH 36 / 22.0	22.0	45.0	10.0	10
52010162	EH 36 / 24.0	24.0	45.0	10.0	10
52010163	EH 36 / 26.0	26.0	45.0	10.0	10
52010164	EH 36 / 28.0	28.0	45.0	10.0	10

SKINDICHT® SHV cone seal



SKINDICHT® SHV Dichtkoneen

■ Benefits

- SKINDICHT® SHV Neoprene® resistant against oil, dust and water
- SKINDICHT® SHV VITON® for high temperatures
- SKINDICHT® SHV VITON® resistant against oils, solvents, acids and chemicals

■ Application range

- Sealing cone for SKINDICHT® cable glands.

■ Approvals (Norm references)



■ Note

- Delivery will be in max. possible packing unit, minimum order quantity is one packing unit

■ Technical data

RAL	Colour delivered
	CR: black
	FKM: red
	Material
	CR
	FKM
	Range of temperature
	CR: -20°C up to +80°C
	FKM: -15°C up to +200°C

Part number	PG size / clear opening	Inner Ø in mm	Length in mm	Pieces / PU
SKINDICHT® SHV Neoprene®				
52021120	SHV 7/5.0	5.0	13.8	100
52021130	SHV 9/6.0	6.0	14.8	100
52021140	SHV 9/7.0	7.0	14.8	100
52021150	SHV 11/7.0	7.0	17.5	100
52021160	SHV 11/9.0	9.0	17.0	100
52021180	SHV 13,5/9.0	9.0	18.5	100
52021170	SHV 13,5/11.0	11.0	18.5	100
52021190	SHV 16/11.0	11.0	19.5	50
52021200	SHV 16/13.0	13.0	19.5	50
52021210	SHV 16/15.0	15.0	19.5	50
52024460	SHV 21/16.0	16.0	19.8	50
52021220	SHV 21/18.0	18.0	19.8	50
52021230	SHV 21/20.0	20.0	19.8	50
52021240	SHV 29/22.0	22.0	24.0	25
52021250	SHV 29/24.0	24.0	24.0	25
52021260	SHV 29/26.0	26.0	24.0	25
SKINDICHT® SHV Viton®				
52021259	SHV 7/5.0	5.0	13.8	100
52021146	SHV 9/6.0	6.0	14.8	100
52021261	SHV 9/7.0	7.0	14.8	100
52021262	SHV 11/7.0	7.0	17.5	100
52021263	SHV 11/9.0	9.0	17.0	100
52021271	SHV 13,5/9.0	9.0	18.5	100
52021272	SHV 13,5/11.0	11.0	18.5	100
52021265	SHV 16/13.0	13.0	19.5	50
52021269	SHV 16/15.0	15.0	19.5	50
52021268	SHV 21/18.0	18.0	19.5	50
52021266	SHV 21/20.0	20.0	19.8	50
52021267	SHV 29/22.0	22.0	19.8	50

Neoprene® and Viton® are registered trademarks of DuPont de Nemours

SKINDICHT® SNR

Benefits

- Alternative antikink sleeves

Application range

- Antikink sleeve for protection against kinking.

Approvals (Norm references)



Note

- Delivery will be in max. possible packing unit, minimum order quantity is one packing unit

Technical data

	Colour delivered Black
	Material CR
	Range of temperature -20°C up to +80°C



Part number	PG size external / internal	Max. cable Ø in mm	Min. cable Ø in mm	Suitable SKINDICHT® gland	Suitable SKINDICHT® gland	Pieces / PU
SKINDICHT® SNR						
52001970	SNR 7/5	5.0	3.5	SH 7	SR 7005	100
52001980	SNR 9/7	7.0	5.5	SH 9	SR 9007	100
52001990	SNR 11/7	7.0	5.5	SH 11	SR 1107	100
52002000	SNR 11/9	9.0	7.5	SH 11	SR 1109	100
52002010	SNR 13/9	9.0	7.5	SH 13,5	SR 1309	100
52002020	SNR 13/11	11.0	9.0	SH 13,5	SR 1311	100
52002030	SNR 13/13	13.0	11.0	SH 13,5	SR 1313	100
52002040	SNR 16/13	13.0	11.5	SH 16	SR 1613	100
52002050	SNR 16/15	15.0	13.0	SH 16	SR 1615	100
52002060	SNR 21/15	15.0	13.5	SH 21	SR 2115	50
52002070	SNR 21/17	17.0	15.0	SH 21	SR 2117	50
52002080	SNR 21/19	19.0	17.0	SH 21	SR 2119	50
52002090	SNR 21/20	20.0	18.0	SH 21	SR 2120	50
52002100	SNR 29/20	20.0	18.0	SH 29	SR 2920	25
52002110	SNR 29/23	23.0	21.0	SH 29	SR 2923	25
52002120	SNR 29/25	25.0	23.0	SH 29	SR 2925	25
52002130	SNR 36/26	26.0	23.0	SH 36	SR 3626	25
52002140	SNR 36/30	30.0	27.0	SH 36	SR 3630	25
52002150	SNR 36/33	33.0	30.0	SH 36	SR 3633	25
52002160	SNR 36/35	35.0	32.0	SH 36	SR 3635	25
52002170	SNR 42/35	35.0	32.0	SH 42	SR 4235	10
52002180	SNR 42/38	38.0	35.0	SH 42	SR 4238	10
52002190	SNR 42/40	40.0	36.0	SH 42	SR 4240	10
52002200	SNR 48/40	40.0	36.0	SH 48	SR 4840	10
52002210	SNR 48/44	44.0	40.0	SH 48	SR 4244	10