

# Cable Glands & Accessories



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# The Company



SAB North America provides cable solutions that meet, exceed, and set new standards in the cable market. For over 60 years SAB has not only provided our customers with a wide array of wire and cable products on our shelves but also impeccable, unmatched service.

In addition to being a focused supplier of flexible cable products to the automation and robotics industries, SAB proudly offers an extensive inventory and product line of high-quality, liquid tight cord grips.

SAB North America offers a complete range of IP 68, RoHS compliant polyamide, nickel-plated brass, and stainless steel cord grips in a variety of colors, sizes, styles, and thread types. In order to help solve strain relief and connection problems, SAB also houses standard and spiral configurations and EMC grounding grips & accessories. UL, CSA, and VDE approved, each fitting can accommodate a wide range of cables here and throughout the world.

To help you identify the best products for your needs or to request a full line flexible control and automation cable catalog, feel free to contact us at any of the following:

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**info@sabcable.com**

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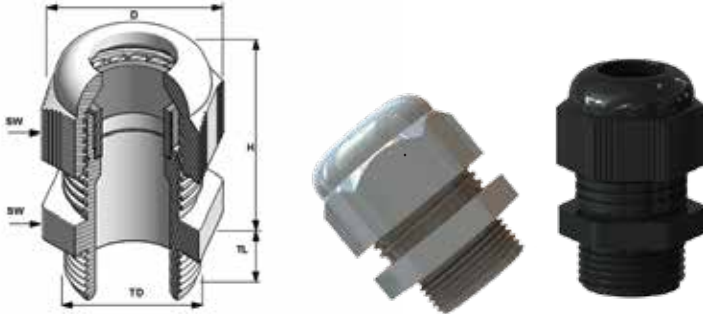
# CG 100 METRIC POLYAMIDE CABLE GLANDS

## Metric thread

Liquid tight seal, fast and easy installation, wide clamping range, multi-purpose applications, easy handling.

### Technical Details

Material	Polyamide 6
Seal	Chloroprene (CR)
Color	RAL 7001 (Gray)
	RAL 9005 (Black)
Protection Class	IP 68 - 5 Bar
Temperature Range	-20°C to +100°C permanent
	-30°C to +150°C intermittent
Flammability	V2 (According to UL 94)
Approvals	UL, UR, CSA, VDE



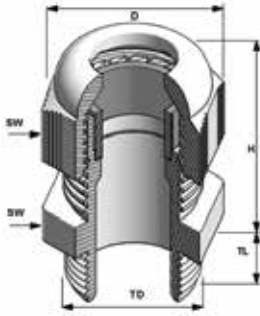
Part Number		Thread Type	Clamping Range		Thread Diameter (TD)		Wrenching Flats (SW)		Thread Length (TL)	Height (H)	UL <sup>1</sup>
Gray	Black		inches	mm	inches	mm	inches	mm			
<b>Metric</b>											
PMG-12	PMB-12	M12x1.5	.118 - .256	3.0 - 6.5	0.472	12	0.591	15	0.315	0.866	UR
PMG-16*	PMB-16*	M16x1.5	.197 - .394	5.0 - 10.0	0.630	16	0.866	22	0.394	1.102	UR
PMG-20*	PMB-20*	M20x1.5	.236 - .473	6.0 - 12.0	0.787	20	0.945	24	0.394	1.142	UL
PMG-20C*	PMB-20C*	M20x1.5	.394 - .552	10.0 - 14.0	0.787	20	1.063	27	0.394	1.220	UL
PMG-25*	PMB-25*	M25x1.5	.512 - .709	13.0 - 18.0	0.984	25	1.299	33	0.394	1.378	UL
PMG-32	PMB-32	M32x1.5	.709 - .984	18.0 - 25.0	1.260	32	1.654	42	0.709	1.575	UL
PMG-40	PMB-40	M40x1.5	.866 - 1.260	22.0 - 32.0	1.575	40	2.087	53	0.709	1.929	UL
PMG-50	PMB-50	M50x1.5	1.181 - 1.496	30.0 - 38.0	1.969	50	2.362	60	0.709	1.929	UL
PMG-63	PMB-63	M63x1.5	1.339 - 1.732	34.0 - 44.0	2.480	63	2.559	65	0.709	1.929	UL
<b>Metric with Reducer Bushings†</b>											
PMG-12R	PMB-12R	M12x1.5	.079 - .197	2.0 - 5.0	0.472	12	0.591	15	0.315	0.866	-
PMG-16R*	PMB-16R*	M16x1.5	.118 - .276	3.0 - 7.0	0.630	16	0.866	22	0.394	1.102	-
PMG-20R*	PMB-20R*	M20x1.5	.197 - .355	5.0 - 9.0	0.787	20	0.945	24	0.394	1.142	-
PMG-20RC*	PMB-20RC*	M20x1.5	.276 - .473	7.0 - 12.0	0.787	20	1.063	27	0.394	1.220	-
PMG-25R*	PMB-25R*	M25x1.5	.354 - .630	9.0 - 16.0	0.984	25	1.299	33	0.394	1.378	-
PMG-32R	PMB-32R	M32x1.5	.472 - .788	12.0 - 20.0	1.260	32	1.654	42	0.709	1.575	-
PMG-40R	PMB-40R	M40x1.5	.788 - 1.024	20.0 - 26.0	1.575	40	2.087	53	0.709	1.929	-
PMG-50R	PMB-50R	M50x1.5	.984 - 1.220	25.0 - 31.0	1.969	50	2.362	60	0.709	1.929	-
PMG-63R	PMB-63R	M63x1.5	1.142 - 1.378	29.0 - 35.0	2.480	63	2.559	65	0.709	1.929	-

\*Available with longer thread  
<sup>1</sup> Additional UL approvals in progress  
 Locknut included

# CG 100 PG POLYAMIDE CABLE GLANDS

## PG thread

Liquid tight seal, fast and easy installation, wide clamping range, multi-purpose applications, easy handling.



### Technical Details

Material	Polyamide 6
Seal	Chloroprene (CR)
Color	RAL 7001 (Gray)
	RAL 9005 (Black)
Protection Class	IP 68 - 5 Bar
Temperature Range	-20°C to +100°C permanent
	-30°C to +150°C intermittent
Flammability	V2 (According to UL 94)
Approvals	UL, UR, CSA

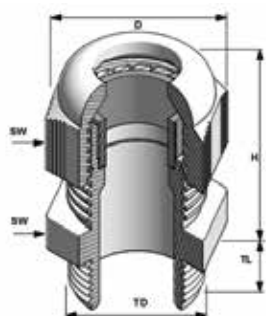
Part Number		Thread Type	Clamping Range Ø min-max		Thread Diameter (TD)		Wrenching Flats (SW)		Thread Length (TL)	Height (H)	UL <sup>1</sup>
Gray	Black		inches	mm	inches	mm	inches	mm			
<b>PG</b>											
PPG-7	PPB-7	PG 7	.118 - .256	3.0 - 6.5	0.492	12.5	0.591	15	0.315	0.866	UR
PPG-9	PPB-9	PG 9	.157 - .315	4.0 - 8.0	0.598	15.2	0.748	19	0.315	0.984	UR
PPG-11	PPB-11	PG 11	.197 - .394	5.0 - 10.0	0.732	18.6	0.866	22	0.315	1.102	UR
PPG-13	PPB-13	PG 13.5	.236 - .472	6.0 - 12.0	0.803	20.4	0.945	24	0.355	1.142	UL
PPG-16	PPB-16	PG 16	.394 - .551	10.0 - 14.0	0.886	22.5	1.063	27	0.394	1.220	UL
PPG-21	PPB-21	PG 21	.512 - .709	13.0 - 18.0	1.114	28.3	1.299	33	0.433	1.378	UL
PPG-29	PPB-29	PG 29	.709 - .984	18.0 - 25.0	1.457	37.0	1.654	42	0.433	1.575	UL
PPG-36	PPB-36	PG 36	.866 - 1.261	22.0 - 32.0	1.850	47.0	2.087	53	0.512	1.929	UL
PPG-42	PPB-42	PG 42	1.181 - 1.496	30.0 - 38.0	2.126	54.0	2.362	60	0.512	1.929	UL
PPG-48	PPB-48	PG 48	1.339 - 1.732	34.0 - 44.0	2.335	59.3	2.559	65	0.552	1.929	UL
<b>PG with Reducer Bushings</b>											
PPG-7R	PPB-7R	PG 7	.079 - .197	2.0 - 5.0	0.492	12.5	0.591	15	0.315	0.866	-
PPG-9R	PPB-9R	PG 9	.079 - .236	2.0 - 6.0	0.598	15.2	0.748	19	0.315	0.984	-
PPG-11R	PPB-11R	PG 11	.118 - .276	3.0 - 7.0	0.732	18.6	0.866	22	0.315	1.102	-
PPG-13R	PPB-13R	PG 13.5	.197 - .355	5.0 - 9.0	0.803	20.4	0.945	24	0.355	1.142	-
PPG-16R	PPB-16R	PG 16	.276 - .473	7.0 - 12.0	0.886	22.5	1.063	27	0.394	1.220	-
PPG-21R	PPB-21R	PG 21	.354 - .630	9.0 - 16.0	1.114	28.3	1.299	33	0.433	1.378	-
PPG-29R	PPB-29R	PG 29	.472 - .788	12.0 - 20.0	1.457	37.0	1.654	42	0.433	1.575	-
PPG-36R	PPB-36R	PG 36	.788 - 1.024	20.0 - 26.0	1.850	47.0	2.087	53	0.512	1.929	-
PPG-42R	PPB-42R	PG 42	.984 - 1.220	25.0 - 31.0	2.126	54.0	2.362	60	0.512	1.929	-
PPG-48R	PPB-48R	PG 48	1.142 - 1.378	29.0 - 35.0	2.335	59.3	2.559	65	0.552	1.929	-

<sup>1</sup> Additional UL approvals in progress  
Locknut included

# CG 100 NPT POLYAMIDE CABLE GLANDS

## NPT thread

Liquid tight seal, fast and easy installation, wide clamping range, multi-purpose applications, easy handling.



### Technical Details

Material	Polyamide 6
Seal	Chloroprene (CR)
Color	RAL 7001 (Gray)
	RAL 9005 (Black)
Protection Class	IP 68 - 5 Bar
Temperature Range	-20°C to +100°C permanent
	-30°C to +150°C intermittent
Flammability	V2 (According to UL 94)
Approvals	UL, UR, CSA

Part Number		Thread Type	Clamping Range Ø min-max		Thread Diameter (TD)		Wrenching Flats (SW)		Thread Length (TL)	Height (H)	UL <sup>1</sup>
Gray	Black		inches	mm	inches	mm	inches	mm			
<b>NPT</b>											
PNG-3/8	PNB-3/8	NPT 3/8	.197 - .394	5.0 - 10.0	0.675	17.1	0.866	22	0.590	1.102	UR
PNG-1/2	PNB-1/2	NPT 1/2	.236 - .472	6.0 - 12.0	0.840	21.3	0.945	24	0.590	1.141	UL
PNG-1/2C	PNB-1/2C	NPT 1/2	.394 - .551	10.0 - 14.0	0.840	21.3	1.063	27	0.590	1.220	UL
PNG-3/4	PNB-3/4	NPT 3/4	.512 - .709	13.0 - 18.0	1.050	26.7	1.299	33	0.590	1.377	UL
PNG-1	PNB-1	NPT 1	.709 - .984	18.0 - 25.0	1.315	33.4	1.654	42	0.709	1.574	UL
<b>NPT with Reducing Bushings</b>											
PNG-3/8R	PNB-3/8R	NPT 3/8	.118 - .276	3.0 - 7.0	0.675	17.1	0.866	22	0.590	1.102	-
PNG-1/2R	PNB-1/2R	NPT 1/2	.197 - .354	5.0 - 9.0	0.840	21.3	0.945	24	0.590	1.141	-
PNG-1/2RC	PNB-1/2RC	NPT 1/2	.276 - .472	7.0 - 12.0	0.840	21.3	1.063	27	0.590	1.220	-
PNG-3/4R	PNB-3/4R	NPT 3/4	.354 - .630	9.0 - 16.0	1.050	26.7	1.299	33	0.590	1.377	-
PNG-1R	PNB-1R	NPT 1	.472 - .787	12.0 - 20.0	1.315	33.4	1.654	42	0.709	1.574	-

<sup>1</sup> Additional UL approvals in progress

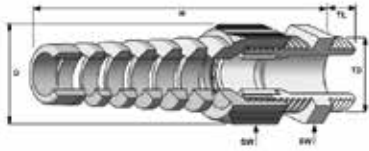
### LOCKNUTS

Part Number		Thread Type	Height		Diameter		Wrenching Flats	
Gray	Black		inches	mm	inches	mm	inches	mm
<b>NPT</b>								
LNG-3/8	LNB-3/8	NPT 3/8	0.197	5	0.984	25.0	0.866	22
LNG-1/2	LNB-1/2	NPT 1/2	0.197	5	1.201	30.5	1.064	27
LNG-3/4	LNB-3/4	NPT 3/4	0.197	5	1.476	37.5	1.299	33
LNG-1	LNB-1	NPT 1	0.236	6	1.831	46.5	1.850	47

# CG 200 METRIC SPIRAL CABLE GLANDS

## Metric thread

Strain relief gland offers maximum protection against conductor fatigue caused by flexing cables.



### Technical Details

Material	Polyamide 6
Seal	Chloroprene (CR)
Color	RAL 7001 (Gray)
	RAL 9005 (Black)
Protection Class	IP 68 - 5 Bar
Temperature Range	- 20°C to +100°C permanent
	- 30°C to +150°C intermittent
Flammability	V2 (According to UL 94)
Approvals	UL, UR, CSA, VDE

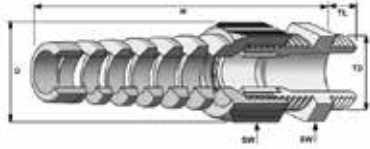
Part Number		Thread Type	Clamping Range Ø min-max		Thread Diameter (TD)		Wrenching Flats (SW)		Thread Length (TL) inches	Height (H) inches	UL <sup>1</sup>
Gray	Black		inches	mm	inches	mm	inches	mm			
<b>Metric</b>											
FMG-12	FMB-12	M12x1.5	.118 - .256	3.0 - 6.5	0.472	12	0.591	15	0.315	2.165	UR
FMG-16	FMB-16	M16x1.5	.197 - .394	5.0 - 10.0	0.630	16	0.866	22	0.394	3.110	UR
FMG-16L	FMB-16L	M16x1.5	.197 - .394	5.0 - 10.0	0.630	16	0.866	22	0.591	3.110	-
FMG-20	FMB-20	M20x1.5	.236 - .472	6.0 - 12.0	0.787	20	0.945	24	0.394	3.740	UL
FMG-20L	FMB-20L	M20x1.5	.236 - .472	6.0 - 12.0	0.787	20	0.945	24	0.591	3.740	-
FMG-20	FMB-20	M20x1.5	.394 - .551	10.0 - 14.0	0.787	20	1.063	27	0.394	4.134	UL
FMG-20CL	FMB-20CL	M20x1.5	.394 - .551	10.0 - 14.0	0.787	20	1.063	27	0.591	4.134	UL
FMG-25	FMB-25	M25x1.5	.512 - .709	13.0 - 18.0	0.984	25	1.299	33	0.394	4.646	UL
FMG-25L	FMB-25L	M25x1.5	.512 - .709	13.0 - 18.0	0.984	25	1.299	33	0.591	4.646	-
<b>Metric with Reducer Bushings</b>											
FMG-12R	FMB-12R	M12x1.5	.079 - .197	2.0 - 5.0	0.472	12	0.591	15	0.315	2.165	-
FMG-16R	FMB-16R	M16x1.5	.118 - .276	3.0 - 7.0	0.630	16	0.866	22	0.394	3.110	-
FMG-16RL	FMB-16RL	M16x1.5	.118 - .276	3.0 - 7.0	0.630	16	0.866	22	0.591	3.110	-
FMG-20R	FMB-20R	M20x1.5	.197 - .354	5.0 - 9.0	0.787	20	0.945	24	0.394	3.740	-
FMG-20RL	FMB-20RL	M20x1.5	.197 - .354	5.0 - 9.0	0.787	20	0.945	24	0.591	3.740	-
FMG-20R	FMB-20R	M20x1.5	.276 - .472	7.0 - 12.0	0.787	20	1.063	27	0.394	4.134	-
FMG-20RCL	FMB-20RCL	M20x1.5	.276 - .472	7.0 - 12.0	0.787	20	1.063	27	0.591	4.134	-
FMG-25R	FMB-25R	M25x1.5	.354 - .551	9.0 - 14.0	0.984	25	1.299	33	0.394	4.646	-
FMG-25RL	FMB-25RL	M25x1.5	.354 - .551	9.0 - 14.0	0.984	25	1.299	33	0.591	4.646	-

"L" indicates Longer Thread  
<sup>1</sup> Additional UL approvals in progress

# CG 200 PG & NPT SPIRAL CABLE GLANDS

## PG & NPT thread

Strain relief gland offers maximum protection against conductor fatigue caused by flexing cables.



### Technical Details

Material	Polyamide 6
Seal	Chloroprene (CR)
Color	RAL 7001 (Gray)
	RAL 9005 (Black)
Protection Class	IP 68 - 5 Bar
Temperature Range	- 20°C to +100°C permanent
	- 30°C to +150°C intermittent
Flammability	V2 (According to UL 94)
Approvals	UL, UR, CSA

Gray	Black	Thread Type	Clamping Range Ø min-max		Thread Diameter (TD)		Wrenching Flats (SW)		Thread Length (TL) inches	Height (H) inches	UL <sup>1</sup>
			inches	mm	inches	mm	inches	mm			
<b>PG</b>											
FPG-7	FPB-7	PG 7	.118 - .256	3.0 - 6.5	0.492	12.5	0.591	15	0.315	2.165	UR
FPG-9	FPB-9	PG 9	.157 - .315	4.0 - 8.0	0.598	15.2	0.748	19	0.315	2.598	UR
FPG-11	FPB-11	PG 11	.197 - .394	5.0 - 10.0	0.732	18.6	0.866	22	0.315	3.110	UR
FPG-13	FPB-13	PG 13.5	.236 - .472	6.0 - 12.0	0.803	20.4	0.945	24	0.355	3.740	UL
FPG-16	FPB-16	PG 16	.394 - .551	10.0 - 14.0	0.886	22.5	1.063	27	0.394	4.134	UL
FPG-21	FPB-21	PG 21	.512 - .709	13.0 - 18.0	1.114	28.3	1.299	33	0.433	4.646	UL
<b>PG with Reducer Bushing</b>											
FPG-7R	FPB-7R	PG 7	.079 - .197	2.0 - 5.0	0.492	12.5	0.591	15	0.315	2.165	-
FPG-9R	FPB-9R	PG 9	.079 - .236	2.0 - 6.0	0.598	15.2	0.748	19	0.315	2.598	-
FPG-11R	FPB-11R	PG 11	.118 - .276	3.0 - 7.0	0.732	18.6	0.866	22	0.315	3.110	-
FPG-13R	FPB-13R	PG 13.5	.197 - .354	5.0 - 9.0	0.803	20.4	0.945	24	0.355	3.740	-
FPG-16R	FPB-16R	PG 16	.276 - .472	7.0 - 12.0	0.886	22.5	1.063	27	0.394	4.134	-
FPG-21R	FPB-21R	PG 21	.354 - .630	9.0 - 16.0	1.114	28.3	1.299	33	0.433	4.646	-
<b>NPT</b>											
FNG-3/8	FNB-3/8	NPT 3/8	.197 - .394	5.0 - 10.0	0.675	17.1	0.866	22	0.590	3.110	UR
FNG-1/2	FNB-1/2	NPT 1/2	.236 - .472	6.0 - 12.0	0.840	21.3	0.945	24	0.590	3.740	UL
FNG-1/2C	FNB-1/2C	NPT 1/2	.394 - .551	10.0 - 14.0	0.840	21.3	1.063	27	0.590	4.133	UL
FNG-3/4	FNB-3/4	NPT 3/4	.551 - .709	14.0 - 18.0	1.050	26.7	1.299	33	0.590	4.645	UL
<b>NPT with Reducer Bushings†</b>											
FNG-3/8R	FNB-3/8R	NPT 3/8	.118 - .276	3.0 - 7.0	0.675	17.1	0.866	22	0.590	3.110	-
FNG-1/2R	FNB-1/2R	NPT 1/2	.197 - .354	5.0 - 9.0	0.840	21.3	0.945	24	0.590	3.740	-
FNG-1/2RC	FNB-1/2RC	NPT 1/2	.276 - .472	7.0 - 12.0	0.840	21.3	1.063	27	0.590	4.133	-
FNG-3/4R	FNB-3/4R	NPT 3/4	.354 - .630	9.0 - 16.0	1.050	26.7	1.299	33	0.590	4.645	-

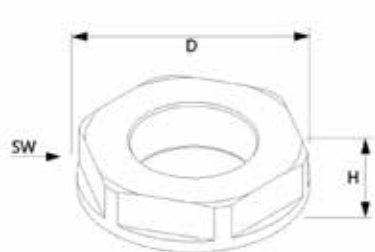
<sup>1</sup> UL approvals in progress



# POLYAMIDE LOCKNUTS

## Metric, PG & NPT

Hexagonal locknuts made of polyamide, glass fiber reinforced.



### Technical Details

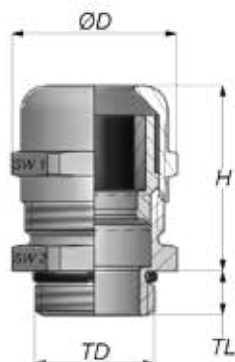
Material	Polyamide 6 (30% Glass Fiber reinforced)
Color	RAL 7001 (Gray) RAL 9005 (Black)
Temperature Range	- 20°C to +100°C permanent - 30°C to +150°C intermittent
Flammability	UL 94 HB

Part Number		Thread Type	Height (H)		Diameter (D)		Wrenching Flats (SW)	
Gray	Black		inches	mm	inches	mm	inches	mm
<b>Metric</b>								
LMG-12	LMB-12	M12x1.5	0.197	5	0.768	19.5	0.709	18
LMG-16	LMB-16	M16x1.5	0.197	5	0.953	24.2	0.866	22
LMG-20	LMB-20	M20x1.5	0.236	6	1.126	28.6	1.024	26
LMG-25	LMB-25	M25x1.5	0.236	6	1.378	35.0	1.260	32
LMG-32	LMB-32	M32x1.5	0.276	7	1.815	46.1	1.614	41
LMG-40	LMB-40	M40x1.5	0.276	7	2.177	55.3	1.969	50
LMG-50	LMB-50	M50x1.5	0.315	8	2.602	66.1	2.362	60
LMG-63	LMB-63	M63x1.5	0.315	8	3.248	82.5	2.953	75
<b>PG</b>								
LPG-7	LPB-7	PG 7	0.197	5	0.827	21.0	0.748	19
LPG-9	LPB-9	PG 9	0.197	5	0.945	24.0	0.866	22
LPG-11	LPB-11	PG 11	0.197	5	1.024	26.0	0.945	24
LPG-13	LPB-13	PG 13.5	0.236	6	1.142	29.0	1.063	27
LPG-16	LPB-16	PG 16	0.236	6	1.299	33.0	1.181	30
LPG-21	LPB-21	PG 21	0.276	7	1.535	39.0	1.417	36
LPG-29	LPB-29	PG 29	0.276	7	1.969	50.0	1.811	46
LPG-36	LPB-36	PG 36	0.315	8	2.598	66.0	2.362	60
LPG-42	LPB-42	PG 42	0.315	8	2.874	73.0	2.559	65
LPG-48	LPB-48	PG 48	0.315	8	3.071	78.0	2.756	70
<b>NPT</b>								
LNG-3/8	LNB-3/8	NPT 3/8	0.197	5	0.984	25.0	0.866	22
LNG-1/2	LNB-1/2	NPT 1/2	0.197	5	1.201	30.5	1.063	27
LNG-3/4	LNB-3/4	NPT 3/4	0.197	5	1.476	37.5	1.299	33
LNG-1	LNB-1	NPT 1	0.236	6	1.831	46.5	1.850	47

# CG 300 METRIC METAL CABLE GLANDS

## Metric thread

Impact resistant, suitable for industrial applications, water tight, corrosion resistant.



### Technical Details

Material	Brass, Nickel Plated
Clamping Insert	Polyamide 6
Seal	Chloroprene (CR)
O-Ring	Neoprene (NBR)
Protection Class	IP 68 - 5 Bar
Temperature Range	-20°C to +100°C permanent -40°C to +150°C intermittent
Flammability	V2 (According to UL 94)
Approvals	UR, UL, VDE

Part Number	Thread Type	Clamping Range Ø min-max		Thread Diameter (TD)		Wrenching Flats Cap (SW1)		Thread Length (TL) inches	Height (H) inches	UL <sup>1</sup>
		inches	mm	inches	mm	inches	mm			
<b>Metric</b>										
MMS-12	M12x1.5	.118 - .256	3.0 - 6.5	0.472	12	0.551	14	0.236	0.846	UR
MMS-16*	M16x1.5	.157 - .315	4.0 - 8.0	0.630	16	0.669	17	0.276	0.906	-
MMS-20*	M20x1.5	.236 - .472	6.0 - 12.0	0.787	20	0.866	22	0.315	0.957	UL
MMS-25*	M25x1.5	.394 - .551	10.0 - 14.0	0.984	25	0.945	24	0.315	1.087	-
MMS-32	M32x1.5	.512 - .709	13.0 - 18.0	1.260	32	1.181	30	0.354	1.228	-
MMS-32C	M32x1.5	.669 - .945	17.0 - 24.0	1.260	32	1.575	40	0.354	1.378	-
MMS-40*	M40x1.5	.709 - .984	18.0 - 25.0	1.575	40	1.575	40	0.354	1.516	-
MMS-50	M50x1.5	.866 - 1.260	22.0 - 32.0	1.969	50	1.969	50	0.354	1.862	-
MMS-50C	M50x1.5	1.142 - 1.575	29.0 - 40.0	1.969	50	2.520	64	0.354	1.929	-
MMS-63	M63x1.5	1.339 - 1.732	34.0 - 44.0	2.480	63	2.520	64	0.551	1.980	UL
MMS-63C	M63x1.5	1.457 - 2.087	37.0 - 53.0	2.480	63	2.953	75	0.394	2.126	-
<b>Metric with Long Thread</b>										
MMS-12L	M12x1.5	.118 - .256	3.0 - 6.5	0.472	12	0.551	14	0.472	0.846	-
MMS-16L*	M16x1.5	.157 - .315	4.0 - 8.0	0.630	16	0.669	17	0.472	0.906	-
MMS-20L*	M20x1.5	.236 - .472	6.0 - 12.0	0.787	20	0.866	22	0.472	0.957	-
MMS-25L*	M25x1.5	.394 - .551	10.0 - 14.0	0.984	25	0.945	24	0.472	1.087	-
MMS-32L*	M32x1.5	.512 - .709	13.0 - 18.0	1.260	32	1.181	30	0.591	1.228	-
MMS-40L*	M40x1.5	.709 - .984	18.0 - 25.0	1.575	40	1.575	40	0.591	1.516	-
MMS-50L	M50x1.5	.866 - 1.260	22.0 - 32.0	1.969	50	1.969	50	0.591	1.862	-
MMS-50CL	M50x1.5	1.142 - 1.575	29.0 - 40.0	1.969	50	2.520	64	0.591	1.929	-
MMS-63L	M63x1.5	1.339 - 1.732	34.0 - 44.0	2.480	63	2.520	64	0.709	1.980	-
MMS-63CL	M63x1.5	1.457 - 2.087	37.0 - 53.0	2.480	63	2.953	75	0.709	2.126	-

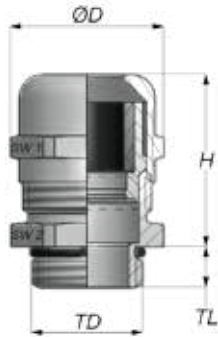
\* 2nd Clamping Range Available  
<sup>1</sup>Additional UL approvals in process

Larger thread sizes (M72 to M120)  
 available upon request

# CG 300 PG & NPT METAL CABLE GLANDS

## PG & NPT thread

Impact resistant, suitable for industrial applications, water tight, corrosion resistant.



### Technical Details

Material	Brass, Nickel Plated
Clamping Insert	Polyamide 6
Seal	Chloroprene (CR)
O-Ring	Neoprene (NBR)
Protection Class	IP 68 - 5 Bar
Temperature Range	-20°C to +100°C permanent -40°C to +150°C intermittent
Flammability	V2 (According to UL 94)
Approvals	UR, UL

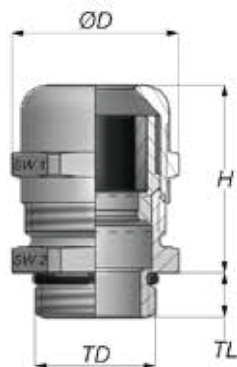
Part Number	Thread Type	Clamping Range Ø min-max		Thread Diameter (TD)		Wrenching Flats Cap (SW1)		Thread Length (TL) inches	Height (H) inches	UL <sup>1</sup>
		inches	mm	inches	mm	inches	mm			
<b>PG</b>										
MPS-7	PG 7	.118 - .256	3.0 - 6.5	0.492	12.5	0.551	14	0.236	0.858	-
MPS-9	PG 9	.157 - .315	4.0 - 8.0	0.598	15.2	0.669	17	0.236	0.890	-
MPS-11	PG 11	.197 - .394	5.0 - 10.0	0.732	18.6	0.787	20	0.236	0.996	-
MPS-13	PG 13.5	.236 - .472	6.0 - 12.0	0.803	20.4	0.866	22	0.256	0.949	-
MPS-16	PG 16	.394 - .551	10.0 - 14.0	0.886	22.5	0.945	24	0.256	1.083	-
MPS-21	PG 21	.512 - .709	13.0 - 18.0	1.114	28.3	1.181	30	0.283	1.228	-
MPS-29	PG 29	.709 - .984	18.0 - 25.0	1.457	37.0	1.575	40	0.315	1.547	-
MPS-36	PG 36	.866 - 1.260	22.0 - 32.0	1.850	47.0	1.969	50	0.354	1.858	-
MPS-42	PG 42	1.182 - 1.496	30.0 - 38.0	2.126	54.0	2.283	58	0.472	1.878	-
MPS-48	PG 48	1.339 - 1.732	34.0 - 44.0	2.335	59.3	2.520	64	0.551	2.047	-
<b>PG with Long Thread</b>										
MPS-7L	PG 7	.118 - .256	3.0 - 6.5	0.492	12.5	0.551	14	0.394	0.858	-
MPS-9L	PG 9	.157 - .315	4.0 - 8.0	0.598	15.2	0.669	17	0.394	0.890	-
MPS-11L	PG 11	.197 - .394	5.0 - 10.0	0.732	18.6	0.787	20	0.394	0.996	-
MPS-13L	PG 13.5	.236 - .472	6.0 - 12.0	0.803	20.4	0.866	22	0.394	0.949	-
MPS-16L	PG 16	.394 - .551	10.0 - 14.0	0.886	22.5	0.945	24	0.394	1.083	-
MPS-21L	PG 21	.512 - .709	13.0 - 18.0	1.114	28.3	1.181	30	0.472	1.228	-
MPS-29L	PG 29	.709 - .984	18.0 - 25.0	1.457	37.0	1.575	40	0.472	1.547	-
MPS-36L	PG 36	.866 - 1.260	22.0 - 32.0	1.850	47.0	1.969	50	0.551	1.858	-
MPS-42L	PG 42	1.182 - 1.496	30.0 - 38.0	2.126	54.0	2.283	58	0.63	1.878	-
MPS-48L	PG 48	1.339 - 1.732	34.0 - 44.0	2.335	59.3	2.520	64	0.709	2.047	-
<b>NPT</b>										
MNS-3/8	NPT 3/8	.157 - .315	4.0 - 8.0	0.675	17.1	0.787	20	0.452	0.905	UR
MNS-3/8C	NPT 3/8	.197 - .394	5.0 - 10.0	0.675	17.1	0.787	20	0.452	0.944	-
MNS-1/2	NPT 1/2	.236 - .472	6.0 - 12.0	0.840	21.3	0.866	22	0.511	1.003	UL
MNS-1/2C	NPT 1/2	.394 - .551	10.0 - 14.0	0.840	21.3	0.944	24	0.511	1.086	-
MNS-3/4	NPT 3/4	.512 - .709	13.0 - 18.0	1.050	26.7	1.181	30	0.511	1.338	-
MNS-1	NPT 1	.709 - .984	18.0 - 25.0	1.315	33.4	1.574	40	0.511	1.692	-

<sup>1</sup>Additional UL approvals in process

# CG 350 METRIC & PG STAINLESS STEEL CABLE GLANDS

## Metric & PG thread

Impact resistant, suitable for industrial and food and beverage applications, water tight, corrosion resistant.



### Technical Details

Material	Stainless steel (AISI 303) or (AISI 316L)
Clamping Insert	Polyamide 6
Seal	Chloroprene (CR)
O-Ring	Neoprene (NBR)
Protection Class	IP 68 - 5 Bar
Temperature Range	-20°C to +100°C permanent -40°C to +150°C intermittent
Flammability	V2 (According to UL 94)
Approvals	UR, UL, VDE

Part Number	Thread Type	Clamping Range Ø min-max		Thread Diameter (TD)		Wrenching Flats Cap (SW1)		Thread Length (TL) mm	Height (H) mm	UL <sup>1</sup>	
		inches	mm	inches	mm	inches	mm				
SS 303	SS 316										
<b>Metric</b>											
SM3-12	SM6-12	M12x1.5	.118 - .256	3.0 - 6.5	0.472	12.0	0.551	14	6.0	21.5	UR
SM3-16	SM6-16	M16x1.5	.157 - .315	4.0 - 8.0	0.630	16.0	0.669	17	7.0	23.0	-
SM3-20	SM6-20	M20x1.5	.236 - .473	6.0 - 12.0	0.787	20.0	0.866	22	8.0	24.3	UL
SM3-25	SM6-25	M25x1.5	.394 - .551	10.0 - 14.0	0.984	25.0	0.945	24	8.0	27.6	-
SM3-32	SM6-32	M32x1.5	.512 - .709	13.0 - 18.0	1.260	32.0	1.181	30	9.0	31.2	-
SM3-40	SM6-40	M40x1.5	.709 - .984	18.0 - 25.0	1.575	40.0	1.614	41	9.0	38.5	-
SM3-50	SM6-50	M50x1.5	.866 - 1.260	22.0 - 32.0	1.969	50.0	1.969	50	9.0	47.3	-
SM3-63	SM6-63	M63x1.5	1.339 - 1.732	34.0 - 44.0	2.480	63.0	2.559	65	14.0	50.3	UL
<b>PG†</b>											
SP3-7	SP6-7	PG 7	.118 - .256	3.0 - 6.5	0.492	12.5	0.551	14	6.0	21.8	-
SP3-9	SP6-9	PG 9	.157 - .315	4.0 - 8.0	0.598	15.2	0.669	17	6.0	22.6	-
SP3-11	SP6-11	PG 11	.197 - .394	5.0 - 10.0	0.732	18.6	0.866	22	6.0	25.3	-
SP3-13	SP6-13	PG 13.5	.236 - .472	6.0 - 12.0	0.803	20.4	0.866	22	6.5	24.1	-
SP3-16	SP6-16	PG 16	.394 - .551	10.0 - 14.0	0.886	22.5	0.945	24	6.5	27.5	-
SP3-21	SP6-21	PG 21	.512 - .709	13.0 - 18.0	1.114	28.3	1.181	30	7.2	31.2	-
SP3-29	SP6-29	PG 29	.709 - .984	18.0 - 25.0	1.457	37.0	1.614	41	8.0	39.3	-
SP3-36	SP6-36	PG 36	.866 - 1.261	22.0 - 32.0	1.850	47.0	1.969	50	9.0	47.2	-
SP3-42	SP6-42	PG 42	1.181 - 1.496	30.0 - 38.0	2.126	54.0	2.362	60	12.0	47.7	-
SP3-48	SP6-48	PG 48	1.339 - 1.732	34.0 - 44.0	2.335	59.3	2.559	65	14.0	52.0	-

<sup>1</sup> Additional UL approval in progress

† PG is not VDE approved

Stainless steel locknut available upon request

# EMC CABLE GLANDS

## EMC-2 and EMC-4

The EMC cable glands combine several advantages into one product. With the EMC gland you get the same clamping range as a normal brass gland with a protection class of IP 68. To create the ground path, remove 5-10mm of the jacket to expose the braid and position the gland on the cable. The large surface of the fingers comes in contact with the braid to provide a completed grounding connection. Furthermore, the EMC design will give you a low impedance electrical contact between the body and the cable braid without having to open the gland. The shielding for electromagnetic purposes will be perfect by just tightening the gland delivered in a ready to use assembly.

**EMC-2**



- ▶ Optimal grounding of shielded cable
- ▶ One direction installation
- ▶ Impact resistant
- ▶ Suitable for the highest demands of todays technology
- ▶ Easy installation
- ▶ Easy handling
- ▶ High corrosion resistance
- ▶ Water tight
- ▶ Strain relief

**EMC-4**



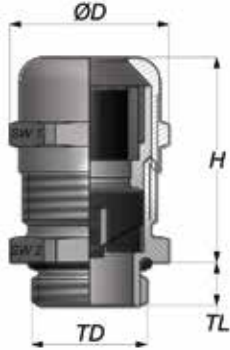
- ▶ Optimal grounding of shielded cable
- ▶ Bi-directional installation
- ▶ Impact resistant
- ▶ Free radial and axial movement of the cable without any damage to the braid
- ▶ Easy installation
- ▶ Large contact surface of the fingers allowing low contact resistance
- ▶ High contact performance under vibrating conditions
- ▶ Water tight
- ▶ Strain relief



# CG EMC-2 METRIC GROUNDING CABLE GLANDS

## Metric thread

Optimal grounding of shielded cable, easy installation, water tight, impact resistant.



### Technical Details

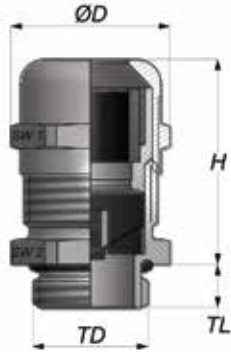
Material	Brass, Nickel Plated
Contact Spring	Special Copper Alloy
Clamping Insert	Polyamide 6
Seal	Chloroprene (CR)
O-Ring	Neoprene (NBR)
Protection Class	IP 68 - 5 Bar
Temperature Range	-20°C to +100°C permanent -40°C to +150°C intermittent
Flammability	V2 (according to UL 94)

Part Number	Thread Type	Clamping Range Ø min-max		Shield Diameter (Ø min)		Wrenching Flats Cap (SW1)		Thread Diameter (TD) mm	Thread Length (TL) mm	Height (H) mm
		inches	mm	inches	mm	inches	mm			
<b>Metric</b>										
EM2-12	M12x1.5	.118 - .256	3.0 - 6.5	0.098	2.5	0.551	14	12	6	22.0
EM2-16	M16x1.5	.158 - .315	4.0 - 8.0	0.118	3.0	0.669	17	16	7	23.0
EM2-16C	M16x1.5	.177 - .394	4.5 - 10.0	0.138	3.5	0.787	20	16	6.5	24.0
EM2-20	M20x1.5	.236 - .472	6.0 - 12.0	0.177	4.5	0.866	22	20	8	25.0
EM2-25	M25x1.5	.394 - .551	10.0 - 14.0	0.335	8.5	0.945	24	25	8	28.0
EM2-25C	M25x1.5	.472 - .709	12.0 - 18.0	0.413	10.5	1.181	30	25	8	37.0
EM2-32	M32x1.5	.512 - .709	13.0 - 18.0	0.433	11.0	1.181	30	32	9	33.0
EM2-32C	M32x1.5	.669 - .945	17.0 - 24.0	0.551	14.0	1.575	40	32	8	35.0
EM2-40	M40x1.5	.709 - .984	18.0 - 25.0	0.630	16.0	1.575	40	40	9	39.0
EM2-40C	M40x1.5	.866 - 1.261	22.0 - 32.0	0.787	20.0	1.969	50	40	8	42.0
EM2-50	M50x1.5	.866 - 1.261	22.0 - 32.0	0.787	20.0	1.969	50	50	9	47.0
EM2-50C	M50x1.5	1.181 - 1.496	30.0 - 38.0	1.024	26.0	2.244	57	50	9	49.0
EM2-63	M63x1.5	1.340 - 1.734	34.0 - 44.0	1.220	31.0	2.520	64	63	14	53.0
<b>Metric with Long Thread</b>										
EM2-12L	M12x1.5	.118 - .256	3.0 - 6.5	0.098	2.5	0.551	14	12	12	21.8
EM2-16L	M16x1.5	.158 - .315	4.0 - 8.0	0.118	3.0	0.669	17	16	12	22.6
EM2-20L	M20x1.5	.236 - .472	6.0 - 12.0	0.177	4.5	0.866	22	20	12	24.5
EM2-25L	M25x1.5	.394 - .511	10.0 - 14.0	0.335	8.5	0.945	24	25	12	27.5
EM2-32L	M32x1.5	.512 - .709	13.0 - 18.0	0.433	11.0	1.181	30	32	15	33.0
EM2-40L	M40x1.5	.709 - .984	18.0 - 25.0	0.630	16.0	1.575	40	40	15	39.0
EM2-50L	M50x1.5	.866 - 1.261	22.0 - 32.0	0.787	20.0	1.969	50	50	15	47.3
EM2-63L	M63x1.5	1.340 - 1.734	34.0 - 44.0	1.220	31.0	2.520	64	63	18	52.2

# CG EMC-2 PG & NPT GROUNDING CABLE GLANDS

## PG & NPT thread

Optimal grounding of shielded cable, easy installation, water tight, impact resistant.



### Technical Details

Material	Brass, Nickel Plated
Contact Spring	Special Copper Alloy
Clamping Insert	Polyamide 6
Seal	Chloroprene (CR)
O-Ring	Neoprene (NBR)
Protection Class	IP 68 - 5 Bar
Temperature Range	-20°C to +100°C permanent -40°C to +150°C intermittent
Flammability	V2 (according to UL 94)
Approvals	UR, UL

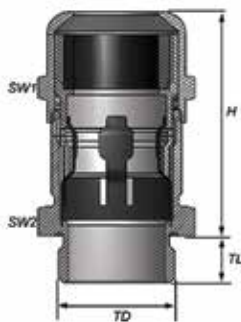
Part Number	Thread Type	Clamping Range Ø min-max		Shield Diameter Ø		Wrenching Flats Cap (SW1)		Thread Diameter (TD) mm	Thread Length (TL) mm	Height (H) mm	UL <sup>1</sup>
		inches	mm	inches	mm	inches	mm				
<b>PG</b>											
EP2-7	PG 7	.118 - .256	3.0 - 6.5	0.098	2.5	0.551	14	12.5	6.0	21.8	-
EP2-9	PG 9	.157 - .315	4.0 - 8.0	0.118	3.0	0.669	17	15.2	6.0	22.6	-
EP2-11	PG 11	.197 - .394	5.0 - 10.0	0.157	4.0	0.787	20	18.6	6.0	25.3	-
EP2-13	PG 13.5	.236 - .473	6.0 - 12.0	0.197	5.0	0.866	22	20.4	6.5	24.1	-
EP2-16	PG 16	.394 - .551	10.0 - 14.0	0.335	8.5	0.945	24	22.5	6.5	27.5	-
EP2-21	PG 21	.512 - .709	13.0 - 18.0	0.433	11.0	1.181	30	28.3	7.2	31.2	-
EP2-29	PG 29	.709 - .984	18.0 - 25.0	0.630	16.0	1.575	40	37.0	8.0	39.3	-
EP2-36	PG 36	.866 - 1.260	22.0 - 32.0	0.787	20.0	1.969	50	47.0	9.0	47.2	-
EP2-42	PG 42	1.181 - 1.497	30.0 - 38.0	1.102	28.0	2.283	58	54.0	12.0	47.7	-
EP2-48	PG 48	1.339 - 1.732	34.0 - 44.0	1.220	31.0	2.520	64	59.3	14.0	52.0	-
<b>PG with Long Thread</b>											
EP2-7L	PG 7	.118 - .256	3.0 - 6.5	0.098	2.5	0.551	14	12.5	8.0	21.8	-
EP2-9L	PG 9	.157 - .315	4.0 - 8.0	0.118	3.0	0.669	17	15.2	10.0	22.6	-
EP2-11L	PG 11	.197 - .394	5.0 - 10.0	0.157	4.0	0.787	20	18.6	10.0	25.3	-
EP2-13L	PG 13.5	.236 - .473	6.0 - 12.0	0.197	5.0	0.866	22	20.4	10.0	24.1	-
EP2-16L	PG 16	.394 - .551	10.0 - 14.0	0.335	8.5	0.945	24	22.5	10.0	27.5	-
EP2-21L	PG 21	.512 - .709	13.0 - 18.0	0.433	11.0	1.181	30	28.3	12.0	31.2	-
EP2-29L	PG 29	.709 - .984	18.0 - 25.0	0.630	16.0	1.575	40	37.0	12.0	39.3	-
EP2-36L	PG 36	.866 - 1.260	22.0 - 32.0	0.787	20.0	1.969	50	47.0	14.0	47.2	-
EP2-42L	PG 42	1.181 - 1.497	30.0 - 38.0	1.102	28.0	2.283	58	54.0	16.0	47.7	-
EP2-48L	PG 48	1.339 - 1.732	34.0 - 44.0	1.220	31.0	2.520	64	59.3	18.0	52.0	-
<b>NPT</b>											
EN2-3/8	NPT 3/8	.196 - .394	5.0 - 10.0	0.157	4.0	0.787	20	17.1	11.5	40.5	UR
EN2-1/2	NPT 1/2	.236 - .472	6.0 - 12.0	0.196	5.0	0.866	22	21.3	13.0	38.3	UL
EN2-3/4	NPT 3/4	.512 - .709	13.0 - 16.0	0.433	11.0	1.181	30	26.7	13.0	47.4	-
EN2-1	NPT 1	.709 - .984	18.0 - 25.0	0.629	16.0	1.574	40	33.4	13.0	55.2	-

<sup>1</sup>Additional UL approvals in process (NPT thread only)

# CG EMC-4 SERIES GROUNDING CABLE GLANDS

## Metric, PG, & NPT thread

Optimal grounding of shielded cable, bi-directional cable installation, impact resistant.



### Technical Details

Material	Brass, Nickel Plated
Contact Spring	Special Copper Alloy
Clamping Insert	Polyamide 6
Seal	Chloroprene (CR)
O-Ring	Neoprene (NBR)
Protection Class	IP 68 - 5 Bar
Temperature Range	-20°C to +100°C permanent -40°C to +300°C intermittent
Flammability	V2 (according to UL 94)
Approvals	UR, UL

Part Number	Thread Type	Clamping Range Ø min-max		Shield Diameter Ø min-max		Wrenching Flats Cap (SW1)		Thread Diameter (TD) mm	Thread Length (TL) mm	Height (H) mm	UL <sup>1</sup>
		inches	mm	inches	mm	inches	mm				
<b>Metric</b>											
EM4-12	M12x1.5	.118 - .256	3.0 - 6.5	.079 - .197	2.0 - 5.0	0.551	14	12.0	6	28	UR
EM4-16	M16x1.5	.197 - .394	5.0 - 10.0	.138 - .315	3.5 - 8.0	0.787	20	16.0	6	34	UR
EM4-20C	M20x1.5	.236 - .472	6.0 - 12.0	.177 - .394	4.5 - 10.0	0.866	22	20.0	6	32	-
EM4-20	M20x1.5	.295 - .551	7.5 - 14.0	.217 - .453	5.5 - 11.5	0.945	24	20.0	8	38	UR
EM4-25	M25x1.5	.394 - .709	10.0 - 18.0	.276 - .551	7.0 - 14.0	1.181	30	25.0	8	42	UR
EM4-32	M32x1.5	.630 - .984	16.0 - 25.0	.472 - .787	12.0 - 20.0	1.575	40	32.0	9	50	UL
EM4-40	M40x1.5	.866 - 1.260	22.0 - 32.0	.709 - 1.063	18.0 - 27.0	1.969	50	40.0	9	57	UL
EM4-50	M50x1.5	1.181 - 1.496	30.0 - 38.0	1.024 - 1.339	26.0 - 34.0	2.283	58	50.0	9	67	UL
EM4-63	M63x1.5	1.339 - 1.732	34.0 - 44.0	1.181 - 1.575	30.0 - 40.0	2.520	64	63.0	14	69	UL
EM4-63C	M63x1.5	1.457 - 2.087	37.0 - 53.0	1.299 - 1.929	33.0 - 49.0	2.953	75	63.0	10	72	-
<b>PG</b>											
EP4-7	PG 7	.118 - .256	3.0 - 6.5	.079 - .197	2.0 - 5.0	0.551	14	12.5	6	22	-
EP4-11	PG 11	.197 - .394	5.0 - 10.0	.138 - .315	3.5 - 8.0	0.787	20	18.6	6	28	-
EP4-13	PG 13.5	.236 - .472	6.0 - 12.0	.177 - .394	4.5 - 10.0	0.866	22	20.4	6	26	-
EP4-16	PG 16	.295 - .551	7.5 - 14.0	.217 - .453	5.5 - 11.5	0.945	24	22.5	8	30	-
EP4-21	PG 21	.394 - .709	10.0 - 18.0	.276 - .551	7.0 - 14.0	1.181	30	28.3	8	34	-
EP4-29	PG 29	.630 - .984	16.0 - 25.0	.472 - .787	12.0 - 20.0	1.575	40	37.0	9	41	-
EP4-36	PG 36	.866 - 1.260	22.0 - 32.0	.709 - 1.063	18.0 - 27.0	1.969	50	47.0	9	48	-
EP4-42	PG 42	1.181 - 1.496	30.0 - 38.0	1.024 - 1.339	26.0 - 34.0	2.283	58	54.0	9	49	-
EP4-48	PG 48	1.339 - 1.732	34.0 - 44.0	1.181 - 1.575	30.0 - 40.0	2.520	64	59.3	14	52	-
<b>NPT</b>											
EN4-1/4	NPT 1/4	.118 - .256	3.0 - 6.5	.079 - .197	2.0 - 5.0	0.551	14	13.7	6	28	-
EN4-3/8	NPT 3/8	.197 - .394	5.0 - 10.0	.138 - .315	3.5 - 8.0	0.787	20	17.1	6	34	-
EN4-1/2C	NPT 1/2	.236 - .472	6.0 - 12.0	.177 - .394	4.5 - 10.0	0.866	22	21.3	8	32	-
EN4-1/2	NPT 1/2	.295 - .551	7.5 - 14.0	.217 - .453	5.5 - 11.5	0.945	24	21.3	8	38	-
EN4-3/4	NPT 3/4	.394 - .709	10.0 - 18.0	.276 - .551	7.0 - 14.0	1.181	30	26.7	8	42	-
EN4-1	NPT 1	.630 - .984	16.0 - 25.0	.472 - .787	12.0 - 20.0	1.575	40	33.4	9	50	-
EN4-1 1/4	NPT 1 1/4	.866 - 1.260	22.0 - 32.0	.709 - 1.063	18.0 - 27.0	1.969	50	42.2	9	57	-
EN4-1 1/2	NPT 1 1/2	1.181 - 1.496	30.0 - 38.0	1.024 - 1.339	26.0 - 34.0	2.283	58	48.3	9	67	-
EN4-2	NPT 2	1.339 - 1.732	34.0 - 44.0	1.181 - 1.575	30.0 - 40.0	2.519	68	60.3	14	69	-

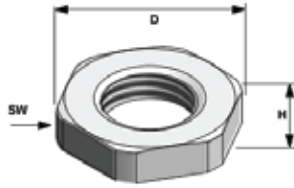
<sup>1</sup>Additional UL approvals in process  
† VDE approval (metric thread only)



# METAL & EMC LOCKNUTS

## Metric, PG & NPT thread

EMC locknut has grounding teeth to make connection to metal panels or control boxes.



### Technical Details

Material	Brass, Nickel Plated
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Part Number	Thread Type	Height (H) mm	Diameter (D) mm	Wrenching Flats (SW) mm
<b>Metric-Standard</b>				
LMM-12	M12x1.5	2.8	16.6	15
LMM-16	M16x1.5	3.0	21.0	19
LMM-20	M20x1.5	3.5	26.5	24
LMM-25	M25x1.5	4.0	33.0	30
LMM-32	M32x1.5	5.0	39.5	36
LMM-40	M40x1.5	5.0	51.0	46
LMM-50	M50x1.5	5.0	66.0	60
LMM-63	M63x1.5	6.0	77.0	70
LMM-72	M72x2.0	7.0	86.0	77
LMM-75	M75x2.0	7.0	89.6	80
LMM-80	M80x2.0	8.0	99.3	90
LMM-85	M85x2.0	8.0	106.2	95
LMM-90	M90x2.0	8.0	112.0	100
<b>PG-Standard</b>				
LPM-7	PG 7	2.8	16.6	15
LPM-9	PG 9	2.8	20.0	18
LPM-11	PG 11	3.0	23.5	21
LPM-13	PG 13.5	3.0	25.5	23
LPM-16	PG 16	3.0	29.0	26
LPM-21	PG 21	3.5	35.5	32
LPM-29	PG 29	4.0	45.0	41
LPM-36	PG 36	5.0	56.0	51
LPM-42	PG 42	5.0	66.0	60
LPM-48	PG 48	5.5	70.5	64
<b>NPT-Standard</b>				
LNM-3/8	NPT 3/8	5.0	24.5	22
LNM-1/2	NPT 1/2	5.0	30.0	27
LNM-3/4	NPT 3/4	5.0	36.5	33
LNM-1	NPT 1	5.0	46.5	43

Stainless steel locknuts are available upon request

Part Number	Thread Type	Height (H) mm	Diameter (D) mm	Wrenching Flats (SW) mm
<b>Metric-EMC</b>				
LME-12	M12x1.5	3.3	16.6	15
LME-16	M16x1.5	3.5	21.0	19
LME-20	M20x1.5	3.5	26.5	24
LME-25	M25x1.5	3.5	33.0	30
LME-32	M32x1.5	4.0	39.5	36
LME-40	M40x1.5	4.6	51.0	46
LME-50	M50x1.5	5.6	66.0	60
LME-63	M63x1.5	6.7	77.0	70
<b>PG-EMC</b>				
LPE-7	PG 7	3.3	16.6	15
LPE-9	PG 9	3.3	20.0	18
LPE-11	PG 11	3.5	23.5	21
LPE-13	PG 13.5	3.5	25.5	23
LPE-16	PG 16	3.5	29.0	26
LPE-21	PG 21	4.0	35.5	32
LPE-29	PG 29	4.6	45.0	41
LPE-36	PG 36	5.6	56.0	51
LPE-42	PG 42	5.6	66.0	60
LPE-48	PG 48	6.1	70.5	64

Stainless steel locknuts are available upon request

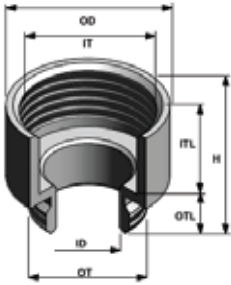
# METAL ENLARGERS

## Metric & PG thread

Enlargers are ideal when a threaded hole exists and you need to secure a larger thread or different style of thread. Made of nickel plated brass, SAB's enlargers are very durable.

### Technical Details

Material	Brass, Nickel Plated
Attachment Thread	EN 60423 (Metric)
	DIN 40430 (PG)



Part Number	Thread Type OT (male)	Thread Type IT (female)	ITL (mm)	OTL (mm)	OD (mm)	ID (mm)
<b>PG-PG</b>						
ENL-01	PG 7	PG 9	6.0	5.0	17.0	9.6
ENL-02	PG 9	PG 11	7.0	6.0	20.0	11.7
ENL-03	PG 9	PG 13.5	7.0	6.0	22.0	11.7
ENL-04	PG 11	PG 13.5	8.5	6.0	22.0	13.8
ENL-05	PG 11	PG 16	8.5	6.0	24.0	13.8
ENL-06	PG 11	PG 21	8.5	6.5	30.0	13.8
ENL-07	PG 13.5	PG 16	8.5	6.5	24.0	16.4
ENL-08	PG 13.5	PG 21	8.5	6.5	30.0	16.4
ENL-09	PG 16	PG 21	10.0	6.5	30.0	17.6
ENL-10	PG 16	PG 29	10.0	7.0	39.0	17.6
ENL-11	PG 21	PG 29	14.0	7.0	39.0	24.0
ENL-12	PG 29	PG 36	17.5	8.0	50.0	32.0
ENL-13	PG 36	PG 42	19.0	9.0	57.0	38.0
ENL-14	PG 42	PG 48	19.5	10.0	64.0	49.2
<b>Metric-PG</b>						
ENL-15	M12x1.5	PG 9	7.0	6.0	17.0	8.0
ENL-16	M16x1.5	PG 11	7.5	6.0	20.0	12.0
ENL-17	M20x1.5	PG 16	8.5	8.0	24.0	16.0
ENL-18	M25x1.5	PG 21	10.0	9.0	30.0	20.5
ENL-19	M32x1.5	PG 29	13.0	8.0	40.0	27.5
ENL-20	M40x1.5	PG 36	14.0	9.0	50.0	35.5
ENL-21	M50x1.5	PG 42	18.0	9.0	57.0	45.5
ENL-22	M63x1.5	PG 48	18.0	9.0	64.0	56.0
<b>Metric-Metric</b>						
ENL-23	M12x1.5	M16x1.5	7.0	6.0	18.0	8.0
ENL-24	M16x1.5	M20x1.5	10.0	6.0	22.0	12.0
ENL-25	M20x1.5	M25x1.5	8.5	7.0	27.0	16.0
ENL-26	M25x1.5	M32x1.5	9.5	8.0	34.0	20.5
ENL-27	M32x1.5	M40x1.5	8.5	8.0	42.0	32.4
ENL-28	M40x1.5	M50x1.5	15.0	8.0	52.0	35.5
ENL-29	M50x1.5	M63x1.5	9.5	9.0	65.0	50.6

OD	Outer diameter
ID	Inner diameter
OT	Outer thread
IT	Inner thread
OTL	Outer thread length
ITL	Inner thread length
H	Height

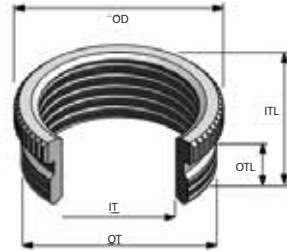
# METAL REDUCERS

## Metric & PG thread

Reducers are ideal when a threaded hole exists and you need to secure a smaller thread or different style of thread. Made of nickel plated brass, SAB's reducers are very durable.

### Technical Details

Material	Brass, Nickel Plated
Attachment Thread	EN 60423 (Metric)
	DIN 40430 (PG)



OD	Outer diameter
OT	Outer thread
IT	Inner thread
OTL	Outer thread length
ITL	Inner thread length

Part Number	Thread Type OT (male)	Thread Type IT (female)	ITL (mm)	OTL (mm)	OD (mm)
<b>PG-PG</b>					
RED-01	PG 9	PG 7	8.5	6.0	17.0
RED-02	PG 11	PG 7	8.5	6.0	20.0
RED-03	PG 11	PG 9	8.5	6.0	20.0
RED-04	PG 13.5	PG 7	9.0	6.5	22.0
RED-05	PG 13.5	PG 9	9.0	6.5	22.0
RED-06	PG 13.5	PG 11	9.0	6.0	22.0
RED-07	PG 16	PG 7	9.5	6.5	24.0
RED-08	PG 16	PG 9	9.5	6.5	24.0
RED-09	PG 16	PG 11	9.5	6.5	24.0
RED-10	PG 16	PG 13.5	9.5	6.5	24.0
RED-11	PG 21	PG 11	10.0	7.0	30.0
RED-12	PG 21	PG 13.5	10.0	7.0	30.0
RED-13	PG 21	PG 16	10.0	7.0	30.0
RED-14	PG 29	PG 13.5	11.5	8.0	39.0
RED-15	PG 29	PG 16	11.5	8.0	39.0
RED-16	PG 29	PG 21	11.5	8.0	39.0
RED-17	PG 36	PG 21	12.5	9.0	50.0
RED-18	PG 36	PG 29	12.5	9.0	50.0
RED-19	PG 42	PG 29	14.0	10.0	57.0
RED-20	PG 42	PG 36	14.0	10.0	57.0
RED-21	PG 48	PG 36	14.0	10.0	64.0
RED-22	PG 48	PG 42	14.0	10.0	64.0
<b>PG-Metric</b>					
RED-23	PG 16	M20x1.5	8.5	6.0	24.0
RED-24	PG 21	M20x1.5	10.0	7.0	30.0
RED-25	PG 21	M25x1.5	10.0	7.0	30.0
RED-26	PG 29	M25x1.5	11.5	8.0	39.0
<b>Metric-Metric</b>					
RED-27	M16x1.5	M12x1.5	8.5	6.0	17.0
RED-28	M20x1.5	M12x1.5	9.5	6.5	22.0
RED-29	M20x1.5	M16x1.5	9.0	6.5	22.0
RED-30	M25x1.5	M16x1.5	10.0	7.0	30.0
RED-31	M25x1.5	M20x1.5	10.0	7.0	30.0
RED-32	M32x1.5	M20x1.5	11.5	8.0	39.0
RED-33	M32x1.5	M25x1.5	11.5	8.0	39.0
RED-34	M40x1.5	M25x1.5	12.5	9.0	50.0
RED-35	M40x1.5	M32x1.5	12.5	9.0	50.0
RED-36	M50x1.5	M32x1.5	14.0	10.0	64.0
RED-37	M50x1.5	M40x1.5	14.0	10.0	64.0
RED-38	M63x1.5	M40x1.5	14.0	10.0	64.0
RED-39	M63x1.5	M50x1.5	14.0	10.0	64.0

# MULTI-HOLE BUSHINGS

## Metric, PG & NPT thread

Multi-hole bushings are ideal for when there is limited space on a control cabinet or when you have multiple smaller cables that need to be secured. They are made of black neoprene and, when used with a SAB cord grip, will provide an excellent seal.

### Technical Details

Material	Neoprene (NBR)
Color	Black

Part Number	Thread Type			Hole Quantity	Hole Diameter Ø mm	Outside Diameter Ø mm	Thickness (mm)
	PG	Metric	NPT				
MHB-01	PG 9	-	-	2	4.0	10.9	7.0
MHB-02	PG 9	-	-	2	3.0	10.9	7.0
MHB-03	PG 9	-	-	4	3.0	10.9	7.0
MHB-04	PG 11	M16	3/8"	2	4.0	13.7	10.1
MHB-05	PG 11	M16	3/8"	2	4.5	13.7	10.1
MHB-06	PG 11	M16	3/8"	2	2.0	13.7	10.1
MHB-07	PG 11	M16	3/8"	2	3.0	13.7	10.1
MHB-08	PG 11	M16	3/8"	2	5.0	13.7	10.1
MHB-09	PG 11	M16	3/8"	3	4.0	13.7	10.1
MHB-10	PG 13.5	M20	1/2"	2	6.0	16.0	8.4
MHB-11	PG 13.5	M20	1/2"	3	4.0	16.0	8.4
MHB-12	PG 13.5	M20	1/2"	3	5.0	16.0	8.4
MHB-13	PG 13.5	M20	1/2"	4	3.0	16.0	8.4
MHB-14	PG 13.5	M20	1/2"	2	5.0	16.0	8.4
MHB-15	PG 13.5	M20	1/2"	4	4.0	16.0	8.4
MHB-16	PG 16	M20	1/2"	2	6.0	18.0	9.3
MHB-17	PG 16	M20	1/2"	2	7.0	18.0	9.3
MHB-18	PG 16	M20	1/2"	3	4.0	18.0	9.3
MHB-19	PG 16	M20	1/2"	2	4.0	18.0	9.3
MHB-20	PG 16	M20	1/2"	4	5.0	18.0	9.3
MHB-21	PG 16	M20	1/2"	3	6.0	18.0	9.3
MHB-22	PG 16	M20	1/2"	3	6.0	18.0	9.3
MHB-23	PG 16	M20	1/2"	5	4.0	18.0	9.3
MHB-24	PG 21	M25	3/4"	2	6.0	22.9	12.2
MHB-25	PG 21	M25	3/4"	2	6.6	22.9	12.2
MHB-26	PG 21	M25	3/4"	2	7.0	22.9	12.2
MHB-27	PG 21	M25	3/4"	2	8.0	22.9	12.2
MHB-28	PG 21	M25	3/4"	2	9.0	22.9	12.2
MHB-29	PG 21	M25	3/4"	3	6.6	22.9	12.2
MHB-30	PG 21	M25	3/4"	3	8.0	22.9	12.2
MHB-31	PG 21	M25	3/4"	4	6.0	22.9	12.2
MHB-32	PG 21	M25	3/4"	4	6.6	22.9	12.2
MHB-33	PG 21	M25	3/4"	4	7.0	22.9	12.2
MHB-34	PG 21	M25	3/4"	8	1.5	22.9	12.2
MHB-43	PG 29	M32	1"	2	8.0	30.4	14.0
MHB-44	PG 29	M32	1"	2	9.0	30.4	14.0
MHB-45	PG 29	M32	1"	3	7.5	30.4	14.0
MHB-46	PG 29	M32	1"	3	8.0	30.4	14.0
MHB-47	PG 29	M32	1"	4	8.0	30.4	14.0
MHB-48	PG 29	M32	1"	5	8.5	30.4	14.0
MHB-49	PG 29	M32	1"	6	6.0	30.4	14.0
MHB-50	PG 29	M32	1"	6	7.5	30.4	14.0
MHB-51	PG 29	M32	1"	6	5.0	30.4	14.0



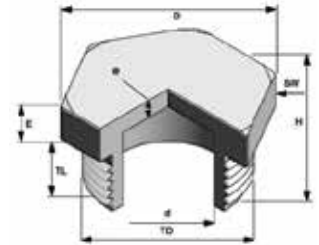
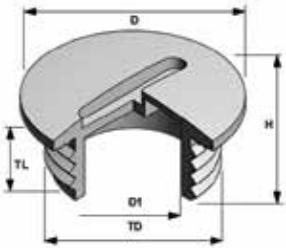
# ROUND & HEX HOLE PLUGS

## Metric & PG Thread

Hole plugs are used where a pre-existing threaded hole exists with no cable that needs to be closed and protected. SAB offers a round and hex top Polyamide 6 product in gray or black & PG and metric thread.

### Technical Details

Material	Polyamide 6
Flammability	V2 (according to UL 94)
Temperature Range	-20°C to +100°C (permanent) -30°C to +150°C (intermittent)



Part Number		Thread Type	Plug Diameter (D)		Thread Length (TL)		Overall Height (H)	
Gray	Black		inches	mm	inches	mm	inches	mm
<b>Metric: Round</b>								
HPR-17	HPR-24	M12X1.5	0.591	15	0.236	6	0.413	10.5
HPR-18	HPR-25	M16X1.5	0.787	20	0.276	7	0.453	11.5
HPR-19	HPR-26	M20X1.5	0.945	24	0.276	7	0.492	12.5
HPR-20	HPR-27	M25X1.5	1.181	30	0.394	10	0.591	15.0
HPR-21	HPR-28	M32X1.5	1.457	37	0.315	8	0.551	14.0
HPR-22	HPR-29	M40X1.5	1.811	46	0.236	6	0.492	12.5
HPR-23	HPR-30	M50X1.5	2.205	56	0.394	10	0.551	14.0
<b>PG: Round</b>								
HPR-01	HPR-09	PG 7	0.591	15	0.236	6	0.315	8.0
HPR-02	HPR-10	PG 9	0.748	19	0.236	6	0.335	8.5
HPR-03	HPR-11	PG 11	0.866	22	0.236	6	0.335	8.5
HPR-04	HPR-12	PG 13.5	0.984	25	0.236	6	0.335	8.5
HPR-05	HPR-13	PG 16	1.063	27	0.236	6	0.354	9.0
HPR-06	HPR-14	PG 21	1.299	33	0.315	8	0.472	12.0
HPR-07	HPR-15	PG 29	1.732	44	0.315	8	0.453	11.5
HPR-08	HPR-16	PG 36	2.165	55	0.394	10	0.551	14.0

Part Number		Thread Type	Plug Diameter (D)		Thread Length (TL)		Wrenching Flat (SW)		Overall Height (H)	
Gray	Black		inches	mm	inches	mm	inches	mm	inches	mm
<b>Metric: Hex</b>										
HPH-01	HPH-13	M12X1.5	0.276	7.0	0.394	10.0	0.591	15	0.591	15.0
HPH-02	HPH-14	M16X1.5	0.433	11.0	0.472	12.0	0.748	19	0.642	16.3
HPH-03	HPH-15	M16X1.5	0.433	11.0	0.591	15.0	0.748	19	0.760	19.3
HPH-04	HPH-16	M20X1.5	0.531	13.5	0.433	11.0	0.906	23	0.669	17.0
HPH-05	HPH-17	M20X1.5	0.531	13.5	0.472	12.0	0.906	23	0.709	18.0
HPH-06	HPH-18	M20X1.5	0.531	13.5	0.591	15.0	0.906	23	0.827	21.0
HPH-07	HPH-19	M25X1.5	0.740	18.8	0.394	10.0	1.102	28	1.016	25.8
HPH-08	HPH-20	M25X1.5	0.740	18.8	0.591	15.0	1.102	28	0.819	20.8
HPH-09	HPH-21	M32X1.5	0.953	24.2	0.591	15.0	1.417	36	0.898	22.8
HPH-10	HPH-22	M40X1.5	1.181	30.0	0.709	18.0	1.811	46	1.043	26.5
HPH-11	HPH-23	M50X1.5	1.575	40.0	0.709	18.0	2.165	55	1.083	27.5
HPH-12	HPH-24	M63X1.5	2.047	52.0	0.709	18.0	2.717	69	1.083	27.5

# HYGIENIC PRODUCT (INTRO)

## Conduit Fitting & Cable Gland



These fittings are made especially for areas of public health, safety, and protection of the environment. Applications range from the food and beverage industry to the chemical processing industry to cleanrooms because the stainless steel cable fittings and gland boasts a smooth surface, with all of the threads beneath the cap nut, preventing the depositing of harmful micro organisms.

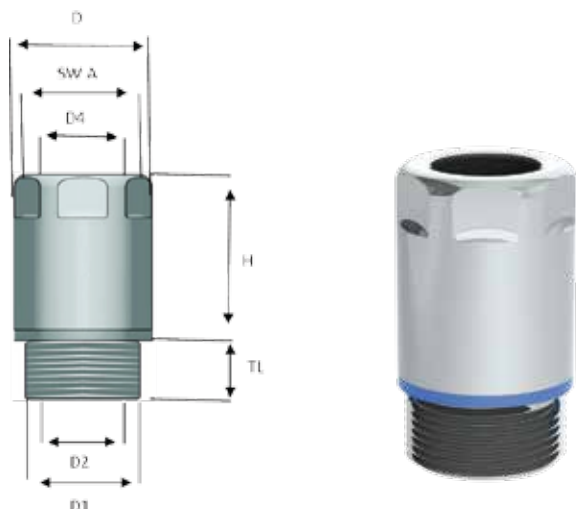
The benefits of this range include:

- ▶ Much easier, faster, and cheaper to clean
- ▶ Reduced energy and use of chemicals compared to conventional stainless steel conduit fittings
- ▶ Resistant to high-pressure water jet cleaning (IP 69K)
- ▶ Greater durability because of superior product quality
- ▶ Reliable strain relief due to duplicate cable attachment
- ▶ Chemical resistant
- ▶ Sustains disinfectant, cleaners, and acids or alkalies
- ▶ Suitable for high pressure steam cleaning



# CG CLEAN HYGIENIC CABLE GLAND

## Standard & EMC, Metric thread



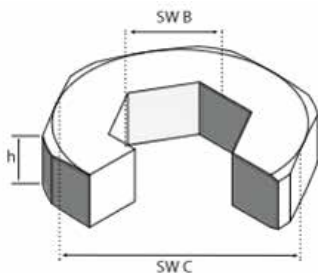
### Technical Details

Material	Stainless steel 1.4404 (AISI 316L)
Seals	TPE conform to FDA Guideline 21 CFR 177.2600
Clamping Insert	POM
Protection	IP 68 (5 bar, 30 min.) acc. to EN 60529
Categories	IP 69K to DIN 40050-9
Temperature	-20°C to +100°C (permanent)
Range	-40°C to +150°C (intermittent)
Locknut	Stainless steel

Part Number	Thread Type	Clamping Range		Wrenching Flats (SW A)		Outer Diameter (D) mm	Thread Diameter (D1) mm	Thread Length (TL) mm	Height (H) mm	Locknut Dimensions (mm)	
		inches	mm	inches	mm					SW L	e
<b>Metric</b>											
HCGM-12	M12x1.5	.118 - .256	3.0 - 6.5	0.551	14	15.6	12	6	21.5	15	2.8
HCGM-16	M16x1.5	.197 - .394	5.0 - 10.0	0.709	18	20.2	16	7	28.5	19	3.0
HCGM-20	M20x1.5	.236 - .472	6.0 - 12.0	0.866	22	24.1	20	10	33.0	24	3.5
HCGM-25	M25x1.5	.472 - .669	12.0 - 17.0	1.102	28	30.1	25	14	38.0	30	4.0
<b>Metric: EMC</b>											
HCGE-16	M16x1.5	.197 - .394	5.0 - 10.0	0.709	18	20.2	16	7	28.5	19	3.0
HCGE-20	M20x1.5	.236 - .472	6.0 - 12.0	0.866	22	24.1	20	10	33.0	24	3.5
HCGE-25	M25x1.5	.472 - .669	12.0 - 17.0	1.102	28	30.1	25	14	38.0	30	4.0

Locknut included

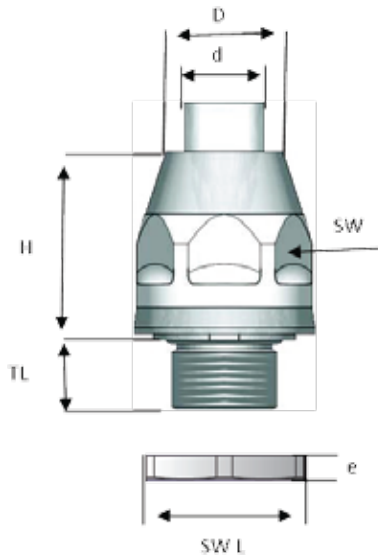
### TOOLS FOR INSTALLATION



Part Number	Thread type	Tool Dimension (mm)		
		SW B	SW C	h
HCGT-01	M12	5	7	5
HCGT-02	M16	6	10	5
HCGT-03	M20	8	13	8
HCGT-04	M25	10	17	8

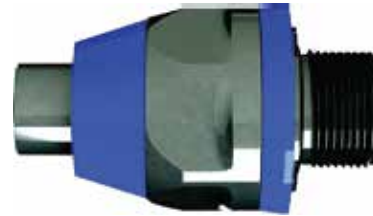
# CF CLEAN HYGIENIC CONDUIT FITTING

## Metric thread



### Technical Details

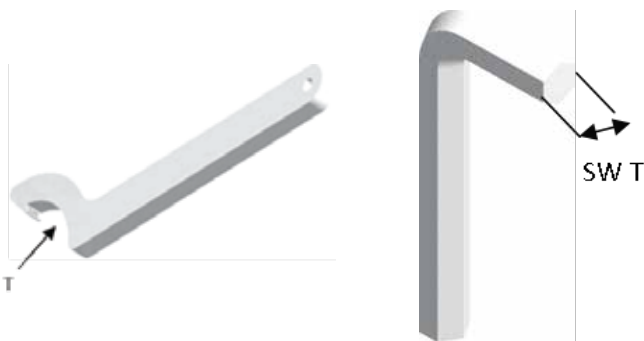
Material	Stainless steel 1.4404 (AISI 316L)
Seals	TPE conform to FDA Guideline 21 CFR 177.2600
Ferrule	Brass, Nickel Plated
Protection	IP 68 (5 bar, 30 min.) acc. to EN 60529
Categories	IP 69K to DIN 40050-9
Temperature	-20°C to +100°C (permanent)
Range	-40°C to +150°C (intermittent)
Locknut	Stainless steel 1.4305 (AISI 303L)



Part Number	Thread Type	Outer Diameter (D)		Inner Diameter (d)		Wrenching Flats (SW)		Thread Length (TL) mm	Height (H) mm	Locknut Dimensions (mm)	
		inches	mm	inches	mm	inches	mm			SW L	e
<b>Metric</b>											
HCFM-16	M16x1.5	0.677	17.2	0.472	12.0	1.063	27	11.5	36.8	19	3.0
HCFM-20	M20x1.5	0.807	20.5	0.591	15.0	1.181	30	13.0	37.3	24	3.5
HCFM-25	M25x1.5	1.016	25.8	0.787	20.0	1.417	36	15.0	42.4	30	4.0
HCFM-32	M32x1.5	1.276	32.4	1.012	25.7	1.811	46	15.0	52.8	36	5.0
HCFM-40	M40x1.5	1.622	41.2	1.346	34.2	2.126	54	16.0	58.9	46	5.0
HCFM-50	M50x1.5	1.846	46.9	1.543	39.2	2.480	63	18.0	63.3	60	5.0
HCFM-63	M63x1.5	2.323	59.0	1.969	50.0	3.031	77	20.0	68.6	40	6.0

Locknut included

### TOOLS FOR INSTALLATION



Part Number	Thread type	Tool Dimension (mm)	
		Ø T	SW T
HCFT-01	M16	24	11
HCFT-02	M20	27	14
HCFT-03	M25	33	19
HCFT-04	M32	42	25
HCFT-05	M40	50	32
HCFT-06	M50	58	36
HCFT-07	M63	72	48



# VG VENT PA6 & NPB PLASTIC & METAL VENT GLANDS

## Metric & PG thread

Vent glands are used to secure a cable and balance the pressure in an enclosure to protect electronic connections from condensation. They are UL approved and chemical resistant. The vent plugs come in black or gray polyamide or nickel plated brass with different air flow ratings.



### Technical Details

Body	Brass, Nickel Plated or Polyamide 6
Cap	Brass, Nickel Plated or Polyamide 6
Vent Element	PTFE
Seal	Chloroprene (CR)
Washer	Neoprene (NBR)
Protection Type	IP 66/67/69K
Temperature	-20°C to +100°C (permanent)
Range	-30°C to +150°C (intermittent)
Approvals	cURus, VDE

Part Number		Average Air Flow	Water Intrusion	Size	Clamping Range		Thread Length	Thread Diameter	Wrenching Flats	Outer Diameter	max. Height
Gray	Black	l/h	Pressure bar		inches	mm	(mm)	(mm)	(mm)	(mm)	(mm)
<b>Plastic Vent Glands</b>											
VGMG-12	VGMB-12	25	0.1	M12x1.5	.157 - .315	4.0 - 8.0	8.0	12.0	19	21.6	22
VGPG-9	VGPB-9	25	0.1	PG 9	.157 - .315	4.0 - 8.0	8.0	15.2	19	21.6	22
VGMG-16	VGMB-16	25	0.1	M16x1.5	.157 - .315	4.0 - 8.0	10.0	16.0	19	21.6	24
VGPG-11	VGPB-11	25	0.1	PG 11	.157 - .315	4.0 - 8.0	10.0	18.6	19	21.6	24
VGMG-20	VGMB-20	40	0.1	M20x1.5	.236 - .472	6.0 - 12.0	10.0	20.0	24	26.8	30
VGPG-13	VGPB-13	40	0.1	PG 13.5	.236 - .472	6.0 - 12.0	10.0	20.4	24	26.8	30
<b>Metal Vent Glands</b>											
VGMM-12		25	0.1	M12x1.5	.157 - .315	4.0 - 8.0	6.0	12.0	17	18.9	25
VGPM-7		25	0.1	PG 7	.157 - .315	4.0 - 8.0	8.0	12.5	17	18.9	25
VGPM-9		25	0.1	PG 9	.157 - .315	4.0 - 8.0	6.0	15.2	17	18.9	25
VGMM-16		25	0.1	M16x1.5	.157 - .315	4.0 - 8.0	5.0	16.0	17	18.9	25
VGMM-16L		35	0.1	M16x1.5	.197 - .394	5.0 - 10.0	8.0	16.0	20	22.0	30
VGPM-11		35	0.1	PG 11	.197 - .394	5.0 - 10.0	8.0	18.6	20	22.0	30
VGMM-20		50	0.1	M20x1.5	.236 - .472	6.0 - 12.0	8.0	20.0	22	24.5	27
VGPM-13		50	0.1	PG 13.5	.236 - .472	6.0 - 12.0	6.5	20.4	22	24.5	27

VDE approved for metric threads only

# VP VENT PA6 POLYAMIDE VENT PLUGS

## Metric thread

Vent plugs are used to balance the pressure in an enclosure to protect electronic connections from condensation. They are UL approved and chemical resistant. The vent plugs come in black or gray polyamide with different air flow ratings.



### Technical Details

Body	Polyamide 6
Cap	Polyamide 6
Vent Element	Acrylic Co-Polymer on Nylon Support
Seal	Chloroprene (CR)
Washer	Neoprene (NBR)
Protection Type	IP 66/68/69K
Temperature Range	-20°C to +100°C (permanent) -30°C to +150°C (intermittent)
Approvals	cURus

Part Number		Average Air Flow I/h	Water Intrusion Pressure bar	Thread Size	Thread Length (mm)	Thread Diameter (mm)	Hole Diameter (mm)	Outer Diameter (mm)	max. Height (mm)
Gray	Black								
VPG-01	VPB-01	16	0.9	QUICK FIT	7.5	5.5	6.4	17	9.2
VPG-02	VPB-02	16	0.9	M12x1.5	6.0	12.0	12.5	17	7.5
VPG-02L	VPB-02L	16	0.9	M12x1.5	10.0	12.0	12.5	17	7.5
VPG-03	VPB-03	25	0.5	QUICK FIT	7.5	5.5	6.4	17	9.2
VPG-04	VPB-04	25	0.5	M12x1.5	6.0	12.0	12.5	17	7.5
VPG-04L	VPB-04L	25	0.5	M12x1.5	10.0	12.0	12.5	17	7.5
VPG-04H	VPB-04H	42	0.9	M12x1.5	10.0	12.0	12.5	24	12.5
VPG-05	VPB-05	42	0.9	M16x1.5	10.0	16.0	16.5	24	12.5
VPG-06	VPB-06	42	0.9	M20x1.5	10.0	20.0	20.5	24	12.5
VPG-07	VPB-07	120	0.2	QUICK FIT	7.5	5.5	6.4	17	9.2
VPG-08H	VPB-08H	120	0.5	M12x1.5	10.0	12.0	12.5	24	12.5
VPG-08	VPB-08	120	0.2	M12x1.5	6.0	12.0	12.5	17	7.5
VPG-08L	VPB-08L	120	0.2	M12x1.5	10.0	12.0	12.5	17	7.5
VPG-09	VPB-09	120	0.5	M16x1.5	10.0	16.0	16.5	24	12.5
VPG-10	VPB-10	120	0.5	M20x1.5	10.0	20.0	20.5	24	12.5
VPG-11	VPB-11	120	0.9	M40x1.5	18.0	40.0	40.5	60	19.0
VPG-12	VPB-12	300	0.1	QUICK FIT	7.5	5.5	6.4	17	9.2
VPG-13	VPB-13	300	0.1	M12x1.5	6.0	12.0	12.5	17	7.5
VPG-13L	VPB-13L	300	0.1	M12x1.5	10.0	12.0	12.5	17	7.5
VPG-14	VPB-14	375	0.5	M40x1.5	18.0	40.0	40.5	60	19.0
VPG-15	VPB-15	450	0.2	M12x1.5	10.0	12.0	12.5	24	12.5
VPG-16	VPB-16	450	0.2	M16x1.5	10.0	16.0	16.5	24	12.5
VPG-17	VPB-17	450	0.2	M20x1.5	10.0	20.0	20.5	24	12.5
VPG-18	VPB-18	750	0.1	M12x1.5	10.0	12.0	12.5	24	12.5
VPG-19	VPB-19	750	0.1	M16x1.5	10.0	16.0	16.5	24	12.5
VPG-20	VPB-20	750	0.1	M20x1.5	10.0	20.0	20.5	24	12.5
VPG-21	VPB-21	1350	0.2	M40x1.5	18.0	40.0	40.5	60	19.0
VPG-22	VPB-22	2200	0.1	M40x1.5	18.0	40.0	40.5	60	19.0

# VP VENT NPB METAL VENT PLUGS

## Metric & PG thread

Vent plugs are used to balance the pressure in an enclosure to protect electronic connections from condensation. They are UL approved and chemical resistant. The vent plugs are stainless steel AISI 303 and come with different air flow ratings.



### Technical Details

Body	Stainless steel AISI 303
Cap	Stainless steel AISI 303
Vent Element	Acrylic Co-Polymer on Nylon Support
Seal	Chloroprene (CR)
Washer	Neoprene (NBR)
Protection Type	IP 66/68/69K
Temperature Range	-20°C to +100°C (permanent) -30°C to +150°C (intermittent)
Approvals	cURus


Part Number	Average Air Flow l/h	Water Intrusion Pressure bar	Thread Size	Thread Length (mm)	Thread Diameter (mm)	Hole Diameter (mm)	Outer Diameter (mm)	max. Height (mm)
VPM-01	4	0.9	M4x0.7	7.0	4.0	4.3	12.3	3.1
VPM-02	7	0.5	M4x0.7	7.0	4.0	4.3	12.3	3.1
VPM-03	16	0.9	M12x1.5	6.0	12.0	12.5	17.0	15.2
VPM-03L	16	0.9	M12x1.5	10.0	12.0	12.5	17.0	11.0
VPM-04	16	0.9	PG 7	10.5	12.5	13.2	17.0	11.0
VPM-05	16	0.9	M16x1.5	6.0	16.0	16.5	17.0	12.4
VPM-05H	16	0.9	M16x1.5	6.0	16.0	16.5	17.0	16.5
VPM-06	16	0.9	M20x1.5	6.0	20.0	20.5	17.0	13.5
VPM-06H	16	0.9	M20x1.5	6.0	20.0	20.5	17.0	17.0
VPM-07	25	0.5	M12x1.5	6.0	12.0	12.5	17.0	15.2
VPM-07L	25	0.5	M12x1.5	10.0	12.0	12.5	17.0	11.0
VPM-08	25	0.5	PG 7	10.5	12.5	13.2	17.0	11.0
VPM-09	25	0.5	M16x1.5	6.0	16.0	16.5	17.0	12.4
VPM-09L	25	0.5	M16x1.5	6.0	16.0	16.5	17.0	16.5
VPM-10	25	0.5	M20x1.5	6.0	20.0	20.5	17.0	13.5
VPM-10H	25	0.5	M20x1.5	6.0	20.0	20.5	17.0	17.0
VPM-11	35	0.2	M4x0.7	7.0	4.0	4.3	12.3	3.1
VPM-12	100	0.1	M4x0.7	7.0	4.0	4.3	12.3	3.1
VPM-13	120	0.2	M12x1.5	6.0	12.0	12.5	17.0	15.2
VPM-13L	120	0.2	M12x1.5	10.0	12.0	12.5	17.0	11.0
VPM-14	120	0.2	PG 7	10.5	12.5	13.2	17.0	11.0
VPM-15	120	0.2	M16x1.5	6.0	16.0	16.5	17.0	12.4
VPM-15H	120	0.2	M16x1.5	6.0	16.0	16.5	17.0	16.5
VPM-16	120	0.2	M20x1.5	6.0	20.0	20.5	17.0	13.5
VPM-16H	120	0.2	M20x1.5	6.0	20.0	20.5	17.0	17.0
VPM-17	120	0.9	M40x1.5	10.0	40.0	40.5	58.5	20.4
VPM-18	300	0.1	M12x1.5	6.0	12.0	12.5	17.0	15.2
VPM-18L	300	0.1	M12x1.5	10.0	12.0	12.5	17.0	11.0
VPM-19	300	0.1	PG 7	10.5	12.5	13.2	17.0	11.0
VPM-20	300	0.1	M16x1.5	6.0	16.0	16.5	17.0	12.4
VPM-20H	300	0.1	M16x1.5	6.0	16.0	16.5	17.0	16.5
VPM-21	300	0.1	M20x1.5	6.0	20.0	20.5	17.0	13.5
VPM-22	375	0.5	M40x1.5	10.0	40.0	40.5	58.5	20.4
VPM-23	1350	0.2	M40x1.5	10.0	40.0	40.5	58.5	20.4
VPM-24	2200	0.1	M40x1.5	10.0	40.0	40.5	58.5	20.4

# COMPLETE CORD GRIP OFFERING

SAB North America offers a complete line of cord grip fittings that compliments SAB's full line of cable products

We offer a one stop solution for your installation.

**Call or email a SAB Sales Specialist for product datasheets, samples, or a quote today.**

Series	Description	Thread
CG 100	 Plastic Standard Series Dome style Polyamide (PA6) strain relief with CR bushing. Available in black & gray.	NPT, Metric, & PG
CG 200	 Plastic Spiral Flex Series Spiral top Polyamide (PA6) strain relief with CR bushing. Available in black & gray.	NPT, Metric, & PG
CG 300	 Metal Standard Series Nickel Plated Brass Strain Relief with CR bushing.	NPT, Metric, & PG
CG 350	 Metal Standard Series Stainless steel with CR bushing. Available in SS 303 & SS 316.	Metric & PG
CG EMC-2	 Nickel plated Brass with CR bushing, tinned copper springs for grounding EMC, one direction installation.	NPT, Metric, & PG
CG EMC-4	 Nickel plated Brass with CR bushing, tinned copper springs for grounding EMC, bi-direction installation	NPT, Metric, & PG
Accessories	Locknuts, enlargers, reducers, hole plug, multi-port bushings, specialty sealings, and more.	NPT, Metric, & PG



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