



Standard Straight-Through

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Standard Straight-Through

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According to DIN 46320

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Cable Gland, Polyamide

Material:

Body: Polyamide 6

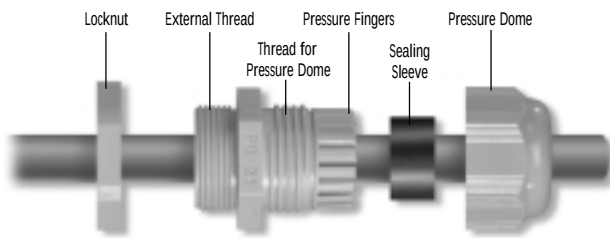
Seal: Neoprene

Technical properties:

- Maximum strain relief through clamping range
- IP 68 achieved without seal rings
- Trapezoidal thread with high torque guarantees tight and permanent fit of the dome nut
- Gas and water-tight

Application field:

- Machines and devices



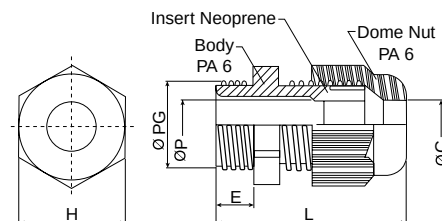
Temperature Range	
PA6	Neoprene
-40 to 100° C (-40 to 212° F)	-25 to 100° C (-13 to 212° F)



PG Thread

Outer thread	Clamping range mm	Cat. No. Light Grey	Cat. No. Black	Std. Pk.
PG 7	1.5-5	5309107	5309207	100
PG 7	2.5-6.5	5308707	5308507	100
PG 9	1.5-6	5309109	5309209	50
PG 9	2.5-8	5308709	5308509	50
PG 11	2-7	5309111	5309211	50
PG 11	3.5-10	5308711	5308511	50
PG 13.5	3-9	5309113	5309213	50
PG 13.5	5-12	5308713	5308513	50
PG 16	5-12	5309116	5309216	50
PG 16	7-14	5308716	5308516	50
PG 21	7-16	5309121	5309221	25
PG 21	9-18	5308721	5308521	25
PG 29	11-21	5309129	5309229	20
PG 29	14-25	5308729	5308529	20
PG 36	13-26	5309136	5309236	10
PG 36	18-32	5308736	5308536	10
PG 42	17-31	5309142	5309242	5
PG 42	24-38.5	5308737	5308537	5
PG 48	26-39	5309148	5309248	5
PG 48	35-48	5308738	5308538	5

PG Dimensions						
Thread Size	H mm	E mm	L mm	ØC mm	ØP mm	ØPG mm
PG7	15	8	32	6.7	6.8	12.5
PG9	19	8	35	8.5	8.7	15.2
PG11	22	8	37	10.5	10.5	18.6
PG13.5	24	9	39	12.5	12.5	20.4
PG16	27	10	43	14.5	14.5	22.5
PG21	33	11	50	18.5	18.5	28.3
PG29	42	11	53	25.5	25.5	37.0
PG36	53	13	65	32.5	32.5	47.0
PG42	60	13	68	39.0	39.0	54.0
PG48	70	14	70	48.5	48.5	59.3



NPT Thread

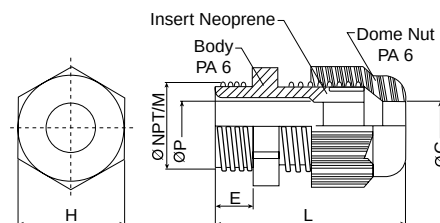
NPT 3/8"	1.5-6	5308904	5308924	50
NPT 3/8"	2.5-8	5308900	5308920	50
NPT 1/2"	3-9	5308905	5308925	50
NPT 1/2"	5-12	5308901	5308921	50
NPT 3/4"	7-16	5308906	5308926	20
NPT 3/4"	9-18	5308902	5308922	20
NPT 1"	11-21	5308907	5308927	20
NPT 1"	14-25	5308903	5308923	20

Metric/NPT Dimensions						
Thread Size	H mm	E mm	L mm	ØC mm	ØP mm	ØNPT/M mm
NPT 3/8	19	11	38	8.5	8.7	17.1
NPT 1/2	24	14	44	12.5	12.5	21.2
NPT 3/4	33	15	54	18.5	18.5	26.7
NPT 1	42	18	60	25.5	25.5	33.3

Metric Thread*

M 12 x 1.5	1.5-5	5309612	5309712	100
M 12 x 1.5	2.5-6.5	5308950	5308940	100
M 16 x 1.5	2-7	5309616	5309716	50
M 16 x 1.5	2.5-8	5308958	5308948	50
M 16 x 1.5	3.5-10	5308951	5308941	50
M 20 x 1.5	5-12	5309620	5309720	50
M 20 x 1.5	5-12	5308959	5308949	50
M 20 x 1.5	7-14	5308952	5308942	50
M 25 x 1.5	7-16	5309625	5309725	25
M 25 x 1.5	7-14	5308960	5308962	50
M 25 x 1.5	9-18	5308953	5308943	25
M 32 x 1.5	11-21	5309632	5309732	20
M 32 x 1.5	14-25	5308954	5308944	20
M 40 x 1.5	13-26	5309640	5309740	10
M 40 x 1.5	18-32	5308955	5308945	10
M 50 x 1.5	17-31	5309650	5309750	5
M 50 x 1.5	24-38.5	5308956	5308946	5
M 63 x 1.5	26-39	5309663	5309763	5
M 63 x 1.5	35-48	5308957	5308947	5

M12	15	8	32	6.7	6.8	12.0
M16	22	10	39	10.5	10.5	16.0
M20	27	10	43	14.5	14.5	20.0
M25	33	10	49	18.5	18.5	25.0
M32	42	10	52	25.5	25.5	32.0
M40	53	10	62	32.5	32.5	40.0
M50	60	12	67	39.0	39.0	50.0
M63	70	12	68	48.5	48.5	63.0



* Extended Thread available consult Altech

Material:

Body: Nickel-plated brass
Seal: Neoprene
Clamping insert: PA 6
Sealing ring for outer thread: Nitril

Technical properties:

- Seal rings included for PG and Metric sizes

Technical properties:

- Maximum strain relief through clamp range
- Gas and water-tight

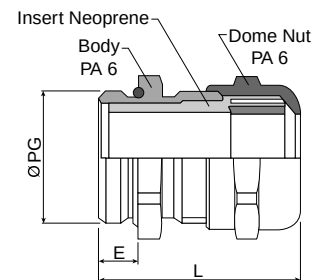
Temperature Range
Neoprene
-25 to 100° C
(-13 to 212° F)



PG Thread*

Outer thread	Clamping range mm	Cat. No.	Std. Pk.
PG 7	1.5-5	4220351	50
PG 7	2.5-6.5	4220307	50
PG 9	2.5-7	4220352	50
PG 9	4-9.5	4220309	50
PG 11	3-8.5	4220353	50
PG 11	6-11.5	4220311	50
PG 13	4-10	4220354	50
PG 13	7-13	4220313	50
PG 16	5-12	4220355	50
PG 16	8-15	4220316	50
PG 21	8-16	4220356	20
PG 21	11-19	4220321	20
PG 29	11-21	4220357	20
PG 29	16-26	4220329	20
PG 36	16-28	4220358	10
PG 36	22-34.5	4220336	10
PG 42	22-34	4220359	5
PG 42	27-40	4220342	5
PG 48	28-40	4220360	5
PG 48	35-48	4220348	5

Thread Size	H mm	PG Dimensions				
		E mm	L mm	ØC mm	ØP mm	ØPG mm
PG7	14	5	32	6.7	6.8	12.5
PG9	17	6	35	8.5	8.7	15.2
PG11	20	6	37	10.5	10.5	18.6
PG13	22	6.5	39	12.5	12.5	20.4
PG16	24	6.5	43	14.5	14.5	22.5
PG21	30	7	50	18.5	18.5	28.3
PG29	40	8	53	25.5	25.5	37.0
PG36	50	9	65	32.5	32.5	47.0
PG42	58	10	68	39.0	39.0	54.0
PG48	65	10	70	48.5	48.5	59.3



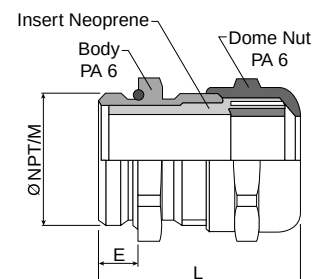
NPT Thread

NPT 3/8"	2.5-7	4220810	50
NPT 3/8"	4-9.5	4220800	50
NPT 1/2"	4-10	4220811	50
NPT 1/2"	7-13	4220801	50
NPT 3/4"	5-13	4220812	20
NPT 3/4"	8-16	4220802	20
NPT 1"	7-17	4220813	5
NPT 1"	11-21	4220803	5

Thread Size	H mm	Metric/NPT Dimensions				
		E mm	L mm	ØC mm	ØP mm	ØNPT/M mm
NPT 3/8	18	15	38	9.7	10	17.1
NPT 1/2	23	20	46	13.2	13.5	21.2
NPT 3/4	28	20	48	16.2	16.5	26.7
NPT 1	36	25	55	21.5	22	33.3
M12	14	5	25	6.6	6.6	12.0
M16	17	5	28	9.7	10	16.0
M20	22	6	32	13.2	13.5	20.0
M25	27	7	35	16.2	16.5	25.0
M32	34	8	38	21.5	22	32.0
M40	42	8	41	27.5	28	40.0
M50	55	9	46	35.5	36	50.0
M63	65	10	54	48.5	50	63.0

Metric Thread*

M 12 x 1.5	1.5-5	4220712	100
M 12 x 1.5	2.5-6.5	4220612	100
M 16 x 1.5	2.5-7	4220716	50
M 16 x 1.5	4-9.5	4220616	50
M 20 x 1.5	4-10	4220720	50
M 20 x 1.5	7-13	4220620	50
M 25 x 1.5	5-13	4220725	25
M 25 x 1.5	8-16	4220625	25
M 32 x 1.5	7-17	4220732	20
M 32 x 1.5	11-21	4220632	20
M 40 x 1.5	10-22	4220740	10
M 40 x 1.5	15-27	4220640	10
M 50 x 1.5	17-29	4220750	5
M 50 x 1.5	22-35	4220650	5
M 63 x 1.5	28-40	4220763	5
M 63 x 1.5	35-48	4220663	5



* Extended Thread available consult Altech

Cable Gland Industrial, Polystyrene

Material:

Body: Polystyrene
Seal: Tefabloc
ECA clamping ring: Polycarbonate

Characteristic feature:

PG/metric thread
Extended thread available
ECA clamping ring

Technical properties:

- Strain relief through ECA clamping ring
- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

Application field:

- Machines and devices
- Measuring and control engineering
- Plant installations

Temperature Range

PS

-20 to 70° C
(-4 to 158° F)

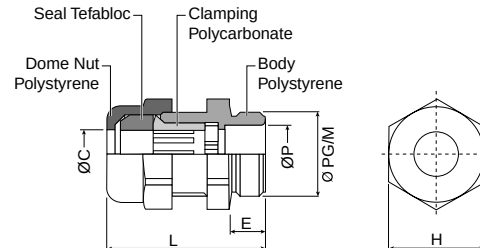


Dimensions

Thread Size	H mm	E mm	L mm	ØC mm	ØP mm	ØPG/M mm
PG7	15	8	31	6.5	7.0	12.5
PG9	19	8	32	8.5	9.0	15.2
PG11	22	8	35	11.5	11.0	18.6
PG13.5	24	9	36	12.5	13.5	20.4
PG16	27	10	40	14.5	15.0	22.5
PG21	33	11	44	18.5	19.0	28.3
PG29	42	12	55	25.0	25.0	37.0
PG36	55	18	65	35.0	37.0	47.0
PG42	65	18	67	43.0	44.0	54.0
PG48	70	18	67	51.0	51.0	59.3
M 16x1.5	19	8	32	8.5	9.0	16.0
M 20x1.5/13	24	9	36	12.5	13.5	20.0
M 20x1.5/16	27	10	40	14.5	15.0	20.0
M 25x1.5	33	11	44	18.5	19.0	25.0
M 32x1.5	42	12	55	25.0	25.0	32.0

ECA Clamping Ring Polystyrene

Outer thread	Clamping range mm	Cat. No. Light Grey	Cat. No. Black	Std. Pk.
PG				
PG 7	3-6	5216007	5218007	50
PG 9	5-8	5216009	5218009	50
PG 11	6-10	5216011	5218011	50
PG 13.5	8-12	5216013	5218013	50
PG 16	10-14	5216016	5218016	25
Metric				
M 16 x 1.5	5-8	5216216	5218216	50
M 20 x 1.5/13	8-12	5216220	5218220	50
M 20 x 1.5/16	10-14	5216221	5218221	50



Material:

Body: Polystyrene
Seal: Tefabloc

Characteristic feature:

PG/metric thread
Extended thread available

Technical properties:

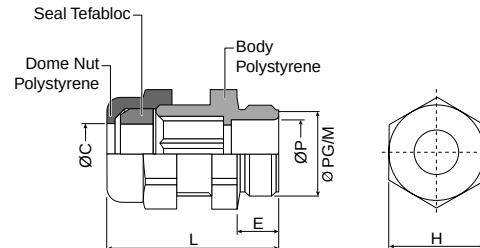
- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

Application field:

- Machines and devices
- Measuring and control engineering
- Plant installations

Short Seal Polystyrene

PG				
PG 7	3-6	5210107	5210507	50
PG 9	4.5-8	5210109	5210509	50
PG 11	5.5-10.5	5210111	5210511	50
PG 13.5	7-12	5210113	5210513	50
PG 16	9-14	5210116	5210516	50
PG 21	11.5-18	5210121	5210521	20
PG 29	16-24.5	5210129	5210529	20
Metric				
M 16 x 1.5	4.5-8	5210816	5210616	50
M 20 x 1.5/13	7-12	5210820	5210620	50
M 20 x 1.5/16	9-14	5210821	5210621	50
M 25 x 1.5	11.5-18	5210825	5210625	20
M 32 x 1.5	16-24.5	5210832	5210632	20



Material:

Body: Polystyrene
Seal: Santoprene/Nitril

Characteristic feature:

PG/metric thread
Extended thread available

Technical properties:

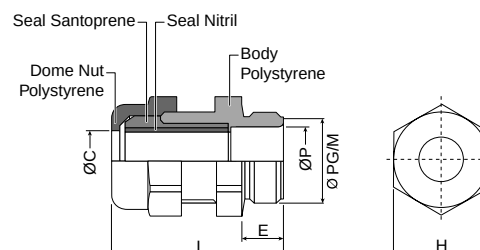
- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

Application field:

- Machines and devices
- Measuring and control engineering
- Plant installations

Long Seal, Two Part Polystyrene

PG				
PG 9	3-8	5321001	5321101	50
PG 11	5-11	5321002	5321102	50
PG 13.5	5-12.5	5321003	5321103	50
PG 16	7-14.5	5321004	5321104	25
PG 21	10-18	5321005	5321105	20
PG 29	14-24	5321006	5321106	20
PG 36	22-32	5321007	5321107	20
PG 42	30-40	5321008	5321108	20
PG 48	34-46	5321009	5321109	20
Metric				
M 16 x 1.5	3-8	5321031	5321131	50
M 20 x 1.5/13	5-12.5	5321032	5321132	50
M 20 x 1.5/16	7-14.5	5321033	5321133	50
M 25 x 1.5	10-18	5321034	5321134	20
M 32 x 1.5	14-24	5321035	5321135	20



Material:

Body: Polystyrene

Seal: Tefabloc

Characteristic feature:

PG/metric thread

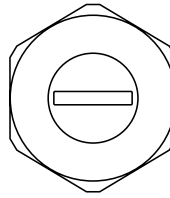
Seal for flat cable round, angular, oval

Technical properties:

- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

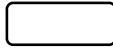
Applications:

- Machines and devices
- Measuring and control engineering
- Plant installations

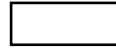


See page 6 for dimensions.

Flat Cable, Rounded



Flat Cable, Angular



Flat Cable, Oval



Outer thread	Clamping range mm	Cat. No. Light Grey	Cat. No. Black	Clamping range mm	Cat. No. Light Grey	Cat. No. Black	Clamping range mm	Cat. No. Light Grey	Cat. No. Black	Std. Pk.
PG										
PG 9	3.5 x 5.5	5321300	5321500							50
PG 11	2.8 x 10.5	5321305	5321505							50
PG 11	3.5 x 9	5321306	5321506							50
PG 11	4 x 6	5321307	5321507							50
PG 13.5	3 x 12	5321310	5321510				5 x 8	5321375	5321575	50
PG 13.5	5 x 11	5321311	5321511				5 x 12	5321376	5321576	50
PG 16	5 x 12	5321315	5321515	8 x 12	5321351	5321551	5 x 12	5321377	5321577	50
PG 16	7.5 x 14	5321317	5321517				5 x 15	5321381	5321581	50
PG 16	5 x 16	5321316	5321516				5.5 x 8.5	5321380	5321580	50
PG 16							6 x 15	5321383	5321583	50
PG 16							7 x 14	5321384	5321584	50
PG 21	5 x 17	5321320	5321520	4 x 15	5321355	5321555	5 x 16	5321385	5321585	20
PG 21	7 x 18	5321321	5321521				7 x 16.5	5321386	5321586	20
PG 21	9 x 15	5321322	5321522				7 x 20	5321387	5321587	20
PG 29	8 x 25	5321326	5321526							20
PG 29	10 x 25	5321327	5321527							20
Metric										
M 16 x 1.5	3.5 x 5.5	5321600	5321800							50
M 20x1.5/13	3 x 12	5321605	5321805				5 x 8	5321650	5321850	50
M 20x1.5/13	5 x 11	5321606	5321806				5 x 12	5321651	5321851	50
M 20x1.5/16	5 x 12	5321610	5321810	8 x 12	5321680	5321880	5.5 x 8.5	5321655	5321855	50
M 20x1.5/16	7.5 x 14	5321611	5321811				7 x 14	5321656	5321856	50
M 25 x 1.5	5 x 16	5321620	5321820	4 x 15	5321685	5321885	5 x 15	5321660	5321860	20
M 25 x 1.5	5 x 17	5321621	5321821				5 x 16	5321662	5321862	20
M 25 x 1.5	7 x 18	5321622	5321822				6 x 15	5321661	5321861	20
M 25 x 1.5	9 x 15	5321623	5321823				7 x 16.5	5321663	5321863	20
M 25 x 1.5							7 x 20	5321670	5321870	20
M 32 x 1.5	8 x 25	5321624	5321824							20
M 32 x 1.5	10 x 25	5321625	5321825							20

Cable Gland Industrial, Multi-Conductor Seal, Polystyrene, PG Thread

Material:

Body: Polystyrene

Seal: Tefabloc

Characteristic feature:

PG thread

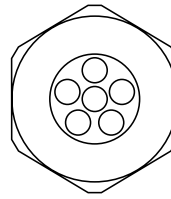
Multi-holed seal inserts

Technical properties:

- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

Applications:

- Machines and devices
- Measuring and control engineering
- Plant installations



Temperature Range

PS

-20 to 70° C
(-4 to 158° F)



See page 6 for dimensions.

Outer thread	Hole Quantity	Hole diameter mm	Cat. No. Light Grey	Cat. No Black	Std. Pk.
PG 7	1	4	5212000	5212400	50
PG 7	1	5	5212001	5212401	50
PG 9	1	5	5212020	5212420	50
PG 9	2	1	5212021	5212421	50
PG 9	2	3	5212022	5212422	50
PG 9	2	3.5	5212023	5212423	50
PG 9	2	4	5212024	5212424	50
PG 9	3	3	5212025	5212425	50
PG 9	4	3	5212026	5212426	50
PG 9	4	4	5212027	5212427	50
PG 11	2	2.3	5212040	5212440	50
PG 11	2	3	5212041	5212441	50
PG 11	2	3.5	5212042	5212442	50
PG 11	2	4	5212043	5212443	50
PG 11	2	5	5212044	5212444	50
PG 11	2	6	5212045	5212445	50
PG 11	3	3	5212046	5212446	50
PG 11	3	3.5	5212047	5212447	50
PG 11	3	4	5212048	5212448	50
PG 11	3	5	5212049	5212449	50
PG 11	3	5.3	5212050	5212450	50
PG 11	4	1.5	5212051	5212451	50
PG 11	4	3.5	5212052	5212452	50
PG 11	6	2	5212053	5212453	50
PG 11	6	2.5	5212054	5212454	50
PG 13.5	2	3	5212070	5212470	50
PG 13.5	2	5	5212071	5212471	50
PG 13.5	2	6	5212072	5212472	50
PG 13.5	3	2	5212073	5212473	50
PG 13.5	3	3	5212074	5212474	50
PG 13.5	3	4	5212075	5212475	50
PG 13.5	3	5.3	5212076	5212476	50
PG 13.5	3	6	5212077	5212477	50
PG 13.5	4	3	5212078	5212478	50
PG 13.5	4	4	5212079	5212479	50
PG 13.5	4	5	5212080	5212480	50
PG 13.5	4	5.3	5212081	5212481	50
PG 13.5	6	3.5	5212082	5212482	50
PG 13.5	10	2	5212083	5212483	50
PG 16	2	4	5212100	5212500	25
PG 16	2	5	5212101	5212501	25
PG 16	2	6	5212102	5212502	25
PG 16	2	7	5212103	5212503	25
PG 16	2	8	5212104	5212504	25
PG 16	2	9	5212105	5212505	25
PG 16	3	3	5212106	5212506	25
PG 16	3	4	5212107	5212507	25
PG 16	3	5	5212108	5212508	25
PG 16	3	5.6	5212109	5212509	25
PG 16	3	6	5212110	5212510	25
PG 16	3	7	5212111	5212511	25
PG 16	3	8	5212112	5212512	25

Outer thread	Hole Quantity	Hole diameter mm	Cat. No. Light Grey	Cat. No Black	Std. Pk.
PG 16	4	4	5212113	5212513	25
PG 16	4	5	5212114	5212514	25
PG 16	4	6	5212115	5212515	25
PG 16	5	4	5212116	5212516	25
PG 16	5	5	5212117	5212517	25
PG 16	6	4	5212118	5212518	25
PG 16	7	4	5212119	5212519	25
PG 21	2	4.5	5212130	5212530	20
PG 21	2	8	5212131	5212531	20
PG 21	2	8.7	5212132	5212532	20
PG 21	2	9	5212133	5212533	20
PG 21	2	11	5212134	5212534	20
PG 21	3	7	5212135	5212535	20
PG 21	3	8	5212136	5212536	20
PG 21	3	9	5212137	5212537	20
PG 21	4	5	5212138	5212538	20
PG 21	4	6	5212139	5212539	20
PG 21	4	7.5	5212140	5212540	20
PG 21	4	8	5212141	5212541	20
PG 21	5	5	5212142	5212542	20
PG 21	5	6	5212143	5212543	20
PG 21	5	6.5	5212144	5212544	20
PG 21	6	4	5212145	5212545	20
PG 21	6	5	5212146	5212546	20
PG 21	6	6	5212147	5212547	20
PG 21	6	6.5	5212148	5212548	20
PG 21	6	7	5212149	5212549	20
PG 21	7	6	5212150	5212550	20
PG 21	8	4	5212151	5212551	20
PG 21	8	5	5212152	5212552	20
PG 21	11	5	5212153	5212553	20
PG 21	21	2	5212154	5212554	20
PG 21	28	3	5212155	5212555	20
PG 29	2	9	5212170	5212570	20
PG 29	2	11	5212171	5212571	20
PG 29	2	12	5212172	5212572	20
PG 29	3	9	5212173	5212573	20
PG 29	3	11	5212174	5212574	20
PG 29	4	8	5212175	5212575	20
PG 29	4	9	5212176	5212576	20
PG 29	4	10	5212177	5212577	20
PG 29	6	6	5212178	5212578	20
PG 29	6	6.5	5212179	5212579	20
PG 29	6	7	5212180	5212580	20
PG 29	7	6	5212181	5212581	20
PG 29	7	7	5212182	5212582	20
PG 29	8	5	5212183	5212583	20
PG 29	8	6	5212184	5212584	20
PG 29	10	6	5212185	5212585	20
PG 29	11	5	5212186	5212586	20
PG 29	28	3	5212187	5212587	20

Material:

Body: Polystyrene

Seal: Tefabloc

Characteristic feature:

Metric thread

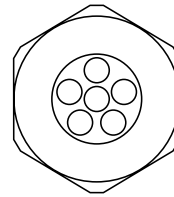
Multi-holed seal inserts

Technical properties:

- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

Applications:

- Machines and devices
- Measuring and control engineering
- Plant installations


Temperature Range

PS

-20 to 70° C
(-4 to 158° F)



See page 6 for dimensions.

Outer thread	Hole Quantity	Hole diameter mm	Cat. No. Light Grey	Cat. No. Black	Std. Pk.	Outer thread	Hole Quantity	Hole diameter mm	Cat. No. Light Grey	Cat. No. Black	Std. Pk.
M 16 x 1.5	2	1	5213100	5215100	50	M 25 x 1.5	4	6	5213305	5215305	20
M 16 x 1.5	2	3	5213101	5215101	50	M 25 x 1.5	5	5	5213306	5215306	20
M 16 x 1.5	2	3.5	5213102	5215102	50	M 25 x 1.5	5	6	5213307	5215307	20
M 16 x 1.5	2	4	5213103	5215103	50	M 25 x 1.5	5	6.5	5213308	5215308	20
M 16 x 1.5	3	3	5213104	5215104	50	M 25 x 1.5	6	4	5213309	5215309	20
M 20 x 1.5	2	3	5213200	5215200	50	M 25 x 1.5	6	5	5213310	5215310	20
M 20 x 1.5	2	4	5213201	5215201	50	M 25 x 1.5	8	4	5213311	5215311	20
M 20 x 1.5	2	5	5213202	5215202	50	M 25 x 1.5	8	5	5213312	5215312	20
M 20 x 1.5	2	6	5213203	5215203	50	M 25 x 1.5	21	2	5213313	5215313	20
M 20 x 1.5	2	7	5213204	5215204	50	M 32 x 1.5	2	9	5213400	5215400	20
M 20 x 1.5	3	2	5213205	5215205	50	M 32 x 1.5	2	11	5213401	5215401	20
M 20 x 1.5	3	3	5213206	5215206	50	M 32 x 1.5	2	12	5213402	5215402	20
M 20 x 1.5	3	4	5213207	5215207	50	M 32 x 1.5	3	9	5213403	5215403	20
M 20 x 1.5	3	5	5213208	5215208	50	M 32 x 1.5	3	11	5213404	5215404	20
M 20 x 1.5	3	5.6	5213209	5215209	50	M 32 x 1.5	4	8	5213405	5215405	20
M 20 x 1.5	3	6	5213210	5215210	50	M 32 x 1.5	4	9	5213406	5215406	20
M 20 x 1.5	4	3	5213211	5215211	50	M 32 x 1.5	4	10	5213407	5215407	20
M 20 x 1.5	4	4	5213212	5215212	50	M 32 x 1.5	6	6	5213408	5215408	20
M 20 x 1.5	5	4	5213213	5215213	50	M 32 x 1.5	6	6.5	5213409	5215409	20
M 20 x 1.5	5	5	5213214	5215214	50	M 32 x 1.5	6	7	5213410	5215410	20
M 20 x 1.5	6	3.5	5213215	5215215	50	M 32 x 1.5	7	6	5213411	5215411	20
M 20 x 1.5	6	4	5213216	5215216	50	M 32 x 1.5	7	7	5213412	5215412	20
M 20 x 1.5	10	2	5213217	5215217	50	M 32 x 1.5	8	5	5213413	5215413	20
M 25 x 1.5	2	4.5	5213300	5215300	20	M 32 x 1.5	8	6	5213414	5215414	20
M 25 x 1.5	2	8	5213301	5215301	20	M 32 x 1.5	10	6	5213415	5215415	20
M 25 x 1.5	3	7	5213302	5215302	20	M 32 x 1.5	11	5	5213416	5215416	20
M 25 x 1.5	3	8	5213303	5215303	20	M 32 x 1.5	28	3	5213417	5215417	20
M 25 x 1.5	4	5	5213304	5215304	20						

Cable gland Industrial, Polyamide

Material:

Body: Polyamide PA 6
25 % Glass-fiber Reinforced
Seal: Tefabloc
ECA clamping ring: Polycarbonate

Characteristic feature:

PG/metric thread
ECA clamping ring
Extended thread available

Technical properties:

- Strain relief through clamping ring
- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

Applications:

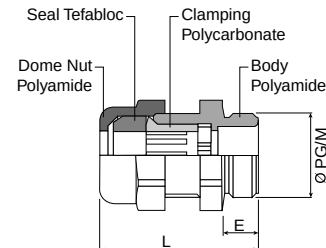
- Machines and devices
- Measuring and control engineering
- Plant installations

Temperature Range PA
-30 to 120° C (-22 to 248° F)

PROTECTION
IP68
RATING

ECA Clamping Ring Polyamide

Outer thread	Clamping range mm	Cat. No. Light Grey	Cat. No. Black	Std. Pk.
PG				
PG 7	3-6	5313610	5313620	50
PG 9	5-8	5313611	5313621	50
PG 11	6-10	5313612	5313622	50
PG 13.5	8-12	5313613	5313623	50
PG 16	10-14	5313614	5313624	50
PG 21	11.5-18	5313615	5313625	20
PG 29	15-24	5313616	5313626	20
Metric				
M 16 x 1.5	5-8	5313640	5313650	50
M 20 x 1.5/13	8-12	5313641	5313651	50
M 20 x 1.5/16	10-14	5313644	5313654	50
M 25 x 1.5	11.5-18	5313642	5313652	20
M 32 x 1.5	15-24	5313643	5313653	20



Thread Size	Dimensions					
	H mm	E mm	L mm	ØC mm	ØP mm	ØPG/M mm
PG7	15	8	31	6.5	7.0	12.5
PG9	19	8	32	8.5	9.0	15.2
PG11	22	8	35	11.5	11.0	18.6
PG13.5	24	9	36	12.5	13.5	20.4
PG16	27	10	40	14.5	15.0	22.5
PG21	33	11	44	18.5	19.0	28.3
PG29	42	12	55	25.0	25.0	37.0
PG36	55	18	65	35.0	37.0	47.0
PG42	65	18	67	43.0	44.0	54.0
PG48	70	18	67	51.0	51.0	59.3
M 16x1.5	19	8	32	8.5	9.0	16.0
M 20x1.5/13	24	9	36	12.5	13.5	20.0
M 20x1.5/16	27	9	39	14.5	15.0	20.0
M 25x1.5	33	11	44	18.5	19.0	25.0
M 32x1.5	42	12	55	25.0	25.0	32.0
M 40x1.5	55	15	63	35.0	34.5	40.0
M 50x1.5	65	15	65	43.0	42.5	50.0
M 63x1.5	70	15	65	51.0	51.0	63.0

Material:

Body: Polyamide PA 6
25 % glass-fiber reinforced
Seal: Tefabloc

Characteristic feature:

PG/metric thread
ECA clamping ring
Extended thread available

Technical properties:

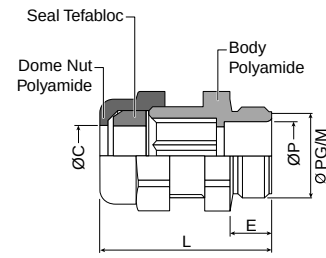
- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

Applications:

- Machines and devices
- Measuring and control engineering
- Plant installations

Short Seal Polyamide

PG				
PG 7	3-6	5211107	5211307	50
PG 9	4.5-8	5211109	5211309	50
PG 11	6.5-10.5	5211111	5211311	50
PG 13.5	7-12	5211113	5211313	50
PG 16	9-14	5211116	5211316	50
PG 21	11.5-18	5211121	5211321	20
PG 29	15-24.5	5211129	5211329	20
Metric				
M 16 x 1.5	4.5-8	5211416	5211616	50
M 20 x 1.5/13	7-12	5211420	5211620	50
M 20 x 1.5/16	9-14	5211421	5211621	50
M 25 x 1.5	11.5-18	5211425	5211625	20
M 32 x 1.5	15-24.5	5211432	5211632	20



Material:

Body: Polyamide PA 6
25 % glass-fiber reinforced
Seal: Santoprene/Nitril

Characteristic feature:

PG/metric thread
Extended thread available

Technical properties:

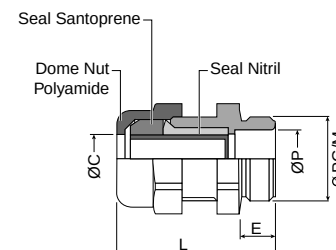
- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

Applications:

- Machines and devices
- Measuring and control engineering
- Plant installations

Long Seal, Two Part Polyamide

PG				
PG 9	3-8	5320001	5320051	50
PG 11	5-11	5320002	5320052	50
PG 13.5	5-12.5	5320003	5320053	50
PG 16	7-14.5	5320004	5320054	50
PG 21	10-18	5320005	5320055	20
PG 29	14-24	5320006	5320056	20
PG 36	22-32	5320007	5320057	10
PG 42	30-40	5320008	5320058	10
PG 48	34-46	5320009	5320059	5
Metric				
M 16 x 1.5	3-8	5320100	5320160	50
M 20 x 1.5/13	5-12.5	5320101	5320161	50
M 20 x 1.5/16	7-14.5	5320104	5320164	50
M 25 x 1.5	10-18	5320102	5320162	20
M 32 x 1.5	14-24	5320103	5320163	20
M 40 x 1.5	22-32	5320105	5320165	20
M 50 x 1.5	30-40	5320106	5320166	20
M 63 x 1.5	34-46	5320107	5320167	20



Material:

Body: Polyamide PA 6
25 % Glass-fiber Reinforced
Seal: Tefabloc

Characteristic feature:

PG/metric thread
Seal for flat cable round,
angular, oval

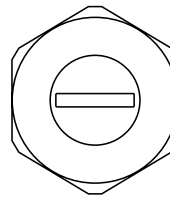


Technical properties:

- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

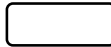
Applications:

- Machines and devices
- Measuring and control engineering
- Plant installations

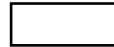


See page 10 for dimensions.

Flat Cable, Rounded



Flat Cable, Angular



Flat Cable, Oval



Outer thread	Clamping range mm	Cat. No. Light Grey	Cat. No. Black	Clamping range mm	Cat. No. Light Grey	Cat. No. Black	Clamping range mm	Cat. No. Light Grey	Cat. No. Black	Std. Pk.
PG										
PG 9	3.5 x 5.5	5320300	5320500							50
PG 11	2.8 x 10.5	5320305	5320505							50
PG 11	3.5 x 9	5320306	5320506							50
PG 11	4 x 6	5320307	5320507							50
PG 13.5	3 x 12	5320310	5320510				5 x 8	5320375	5320575	50
PG 13.5	5 x 11	5320311	5320511				5 x 12	5320376	5320576	50
PG 16	5 x 12	5320315	5320515	8 x 12	5320351	5320551	5 x 12	5320380	5320580	50
PG 16	5 x 16	5320316	5320516				5.5 x 8.5	5320381	5320581	50
PG 16	7.5 x 14	5320317	5320517				5 x 15	5320382	5320582	50
PG 16							6 x 15	5320383	5320583	50
PG 16							7 x 14	5320384	5320584	50
PG 21	5 x 17	5320320	5320520	4 x 15	5320355	5320555	5 x 16	5320385	5320585	20
PG 21	7 x 18	5320321	5320521				7 x 16.5	5320386	5320586	20
PG 21	9 x 15	5320322	5320522				7 x 20	5320387	5320587	20
PG 29	6 x 29	5320325	5320525	6 x 26	5320360	5320560	10 x 27	5320390	5320590	20
PG 29	8 x 25	5320326	5320526	7 x 26	5320361	5320561				20
PG 29	10 x 25	5320327	5320527							20
PG 29	13 x 28	5320328	5320528							20
PG 36	6 x 30	5320330	5320530	5 x 36	5320365	5320565	6.5 x 32	5320393	5320593	20
PG 36	6 x 36	5320331	5320531	8 x 30	5320366	5320566	11 x 35	5320394	5320594	20
PG 36	8 x 36	5320332	5320532							20
PG 36	11 x 34	5320333	5320533							20
PG 36	12 x 35	5320334	5320534							20
PG 42	10 x 38	5320335	5320535	5.5 x 37	5320370	5320570	6 x 41	5320396	5320596	20
PG 42	13 x 35	5320336	5320536	6 x 39	5320371	5320571	9 x 38	5320397	5320597	20
PG 42	14 x 37	5320337	5320537							20
PG 48	6.5 x 47	5320342	5320542							20
PG 48	9 x 43	5320343	5320543							20
PG 48	14.5 x 39	5320344	5320544							20
PG 48	15 x 45	5320345	5320545							20
Metric										
M 16 x 1.5	3.5 x 5.5	5320710	5320810							50
M 20x1.5/13	3 x 12	5320715	5320815				5 x 8	5320770	5320870	50
M 20x1.5/13	5 x 11	5320716	5320816				5 x 12	5320771	5320871	50
M 20x1.5/16	5 x 12	5320717	5320817	8 x 12	5320785	5320885	5.5 x 8.5	5320772	5320872	50
M 20x1.5/16	7.5 x 14	5320718	5320818				7 x 14	5320773	5320873	50
M 25 x 1.5	5 x 16	5320720	5320820	4 x 15	5320786	5320886	5 x 15	5320774	5320874	20
M 25 x 1.5	5 x 17	5320721	5320821				5 x 16	5320775	5320875	20
M 25 x 1.5	7 x 18	5320722	5320822				6 x 15	5320776	5320876	20
M 25 x 1.5	9 x 15	5320723	5320823				7 x 16.5	5320777	5320877	20
M 32 x 1.5	8 x 25	5320730	5320830				7 x 20	5320780	5320880	20
M 32 x 1.5	10 x 25	5320731	5320831							20

Cable Gland Industrial, Multi-conductor Seal, Polyamide, PG Thread

Material:

Body: Polyamide PA 6
25 % Glass-fiber Reinforced
Seal: Tefabloc

Characteristic feature:

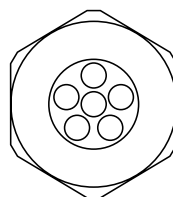
PG thread
Multi-holed seal inserts

Technical properties:

- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

Applications:

- Machines and devices
- Measuring and control engineering
- Plant installations



Temperature Range

PA 6

-30 to 120° C

(-22 to 248° F)



See page 10 for dimensions.

Outer thread	Hole Quantity	Hole diameter mm	Cat. No. Light Grey	Cat. No. Black	Std. Pk.
PG 7	1	4	5315800	5315600	50
PG 7	1	5	5315801	5315601	50
PG 9	1	5	5315810	5315610	50
PG 9	2	1	5315811	5315611	50
PG 9	2	3	5315812	5315612	50
PG 9	2	3.5	5315813	5315613	50
PG 9	2	4	5315814	5315614	50
PG 9	3	3	5315815	5315615	50
PG 9	4	3	5315816	5315616	50
PG 9	4	4	5315817	5315617	50
PG 11	2	2.3	5315820	5315620	50
PG 11	2	3	5315821	5315621	50
PG 11	2	3.5	5315110	5315500	50
PG 11	2	4	5315822	5315622	50
PG 11	2	5	5315111	5315501	50
PG 11	2	6	5315112	5315502	50
PG 11	3	3	5315823	5315623	50
PG 11	3	3.5	5315113	5315503	50
PG 11	3	4	5315824	5315624	50
PG 11	3	5	5315114	5315504	50
PG 11	3	5.3	5315825	5315625	50
PG 11	4	1.5	5315826	5315626	50
PG 11	4	3.5	5315827	5315627	50
PG 11	6	2	5315828	5315628	50
PG 11	6	2.5	5315829	5315629	50
PG 13.5	2	3	5315830	5315630	50
PG 13.5	2	5	5315831	5315631	50
PG 13.5	2	6	5315130	5315510	50
PG 13.5	3	2	5315832	5315632	50
PG 13.5	3	3	5315833	5315633	50
PG 13.5	3	4	5315834	5315634	50
PG 13.5	3	5.3	5315835	5315635	50
PG 13.5	3	6	5315836	5315636	50
PG 13.5	4	3	5315837	5315637	50
PG 13.5	4	4	5315838	5315638	50
PG 13.5	4	5	5315839	5315639	50
PG 13.5	4	5.3	5315840	5315640	50
PG 13.5	6	3.5	5315841	5315641	50
PG 13.5	10	2	5315842	5315642	50
PG 16	2	4	5315850	5315650	50
PG 16	2	5	5315851	5315651	50
PG 16	2	6	5315852	5315652	50
PG 16	2	7	5315160	5315515	50
PG 16	2	8	5315853	5315653	50
PG 16	2	9	5315854	5315654	50
PG 16	3	3	5315855	5315655	50
PG 16	3	4	5315856	5315656	50
PG 16	3	5	5315857	5315516	50
PG 16	3	5.6	5315858	5315658	50
PG 16	3	6	5315859	5315659	50
PG 16	3	7	5315860	5315660	50
PG 16	3	8	5315861	5315661	50

Outer thread	Hole Quantity	Hole diameter mm	Cat. No. Light Grey	Cat. No. Black	Std. Pk.
PG 16	4	4	5315862	5315662	50
PG 16	4	5	5315863	5315663	50
PG 16	4	6	5315864	5315664	50
PG 16	5	4	5315865	5315665	50
PG 16	5	5	5315866	5315666	50
PG 16	6	4	5315867	5315667	50
PG 16	7	4	5315868	5315668	50
PG 21	2	4.5	5315869	5315669	20
PG 21	2	8	5315870	5315670	20
PG 21	2	8.7	5315871	5315671	20
PG 21	2	9	5315872	5315672	20
PG 21	2	11	5315873	5315673	20
PG 21	3	7	5315210	5315520	20
PG 21	3	8	5315211	5315521	20
PG 21	3	9	5315874	5315674	20
PG 21	4	5	5315875	5315685	20
PG 21	4	6	5315212	5315522	20
PG 21	4	7.5	5315876	5315676	20
PG 21	4	8	5315213	5315523	20
PG 21	5	5	5315877	5315677	20
PG 21	5	6	5315214	5315524	20
PG 21	5	6.5	5315215	5315525	20
PG 21	6	4	5315878	5315678	20
PG 21	6	5	5315879	5315679	20
PG 21	6	6	5315216	5315526	20
PG 21	6	6.5	5315217	5315527	20
PG 21	6	7	5315218	5315528	20
PG 21	7	6	5315219	5315529	20
PG 21	8	4	5315880	5315683	20
PG 21	8	5	5315220	5315530	20
PG 21	11	5	5315221	5315531	20
PG 21	21	2	5315881	5315684	20
PG 21	28	3	5315222	5315532	20
PG 29	2	9	5315289	5315690	20
PG 29	2	11	5315891	5315691	20
PG 29	2	12	5315892	5315692	20
PG 29	3	9	5315893	5315693	20
PG 29	3	11	5315894	5315694	20
PG 29	4	8	5315290	5315540	20
PG 29	4	9	5315895	5315695	20
PG 29	4	10	5315896	5315696	20
PG 29	6	6	5315897	5315697	20
PG 29	6	6.5	5315292	5315542	20
PG 29	6	7	5315293	5315543	20
PG 29	7	6	5315294	5315544	20
PG 29	7	7	5315898	5315698	20
PG 29	8	5	5315899	5315699	20
PG 29	8	6	5315295	5315545	20
PG 29	10	6	5315900	5315700	20
PG 29	11	5	5315296	5315546	20
PG 29	28	3	5315297	5315547	20

Material:

Body: polyamide PA 6
25 % Glass-fiber Reinforced
Seal: Tefabloc

Characteristic feature:

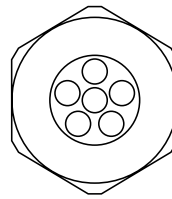
Metric Thread
Multi-holed seal inserts

Technical properties:

- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

Applications:

- Machines and devices
- Measuring and control engineering
- Plant installations



Temperature Range

PA 6

-30 to 120° C
(-22 to 248° F)



See page 10 for dimensions.

Outer thread	Hole Quantity	Hole diameter mm	Cat. No. Light Grey	Cat. No. Black	Std. Pk.	Outer thread	Hole Quantity	Hole diameter mm	Cat. No. Light Grey	Cat. No. Black	Std. Pk.
M 16 x 1.5	2	1	5316100	5318100	50	M 32 x 1.5	8	6	5316414	5318414	20
M 16 x 1.5	2	3	5316101	5318101	50	M 32 x 1.5	10	6	5316415	5318415	20
M 16 x 1.5	2	3.5	5316102	5318102	50	M 32 x 1.5	11	5	5316416	5318416	20
M 16 x 1.5	2	4	5316103	5318103	50	M 32 x 1.5	28	3	5316417	5318417	20
M 16 x 1.5	3	3	5316104	5318104	50						
M 20 x 1.5	2	3	5316200	5318200	50						
M 20 x 1.5	2	4	5316201	5318201	50						
M 20 x 1.5	2	5	5316202	5318202	50						
M 20 x 1.5	2	6	5316203	5318203	50						
M 20 x 1.5	2	7	5316204	5318204	50						
M 20 x 1.5	3	2	5316205	5318205	50						
M 20 x 1.5	3	3	5316206	5318206	50						
M 20 x 1.5	3	4	5316207	5318207	50						
M 20 x 1.5	3	5	5316208	5318208	50						
M 20 x 1.5	3	5.6	5316209	5318209	50						
M 20 x 1.5	3	6	5316210	5318210	50						
M 20 x 1.5	4	3	5316211	5318211	50						
M 20 x 1.5	4	4	5316212	5318212	50						
M 20 x 1.5	5	4	5316213	5318213	50						
M 20 x 1.5	5	5	5316214	5318214	50						
M 20 x 1.5	6	3.5	5316215	5318215	50						
M 20 x 1.5	6	4	5316216	5318216	50						
M 20 x 1.5	10	2	5316217	5318217	50						
M 25 x 1.5	2	4.5	5316300	5318300	20						
M 25 x 1.5	2	8	5316310	5318301	20						
M 25 x 1.5	3	7	5316302	5318302	20						
M 25 x 1.5	3	8	5316303	5318303	20						
M 25 x 1.5	4	5	5316304	5318304	20						
M 25 x 1.5	4	6	5316305	5318305	20						
M 25 x 1.5	5	5	5316306	5318306	20						
M 25 x 1.5	5	6	5316307	5318307	20						
M 25 x 1.5	5	6.5	5316308	5318308	20						
M 25 x 1.5	6	4	5316309	5318309	20						
M 25 x 1.5	6	5	5316310	5318310	20						
M 25 x 1.5	8	4	5316311	5318311	20						
M 25 x 1.5	8	5	5316312	5318312	20						
M 25 x 1.5	21	2	5316313	5318313	20						
M 32 x 1.5	2	9	5316400	5318400	20						
M 32 x 1.5	2	11	5316401	5318401	20						
M 32 x 1.5	2	12	5316402	5318402	20						
M 32 x 1.5	3	9	5316403	5318403	20						
M 32 x 1.5	3	11	5316404	5318404	20						
M 32 x 1.5	4	8	5316405	5318405	20						
M 32 x 1.5	4	9	5316406	5318406	20						
M 32 x 1.5	4	10	5316407	5318407	20						
M 32 x 1.5	6	6	5316408	5318408	20						
M 32 x 1.5	6	6.5	5316409	5318409	20						
M 32 x 1.5	6	7	5316410	5318410	20						
M 32 x 1.5	7	6	5316411	5318411	20						
M 32 x 1.5	7	7	5316412	5318412	20						
M 32 x 1.5	8	5	5316413	5318413	20						

Cable Gland Industrial, PVDF

Material:

Body: Polyvinylidene fluoride

Seal: Santoprene/Nitril

ECA clamping ring: Polycarbonate

Characteristic feature:

Metric thread

ECA clamping ring

Short and long seal

Technical properties:

- No halogen
- Strain relief through clamping ring
- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts
- Chemical resistant

Applications:

- Machines and devices
- Measuring and control engineering
- Plant installations
- Food sector

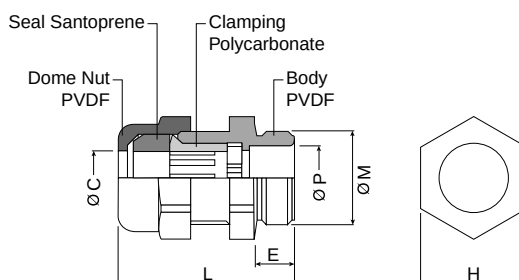


Temperature Range
PVDF
-40 to 105° C
(-40 to 221° F)



Metric Thread

Outer thread	ECA		Short Seal		Long Seal		Std. Pk.
	Clamping range mm	Cat. No.	Clamping range mm	Cat. No.	Clamping range mm	Cat. No.	
M 16 x 1.5	5-8	5330016	4.5-8	5330116	3-8	5330216	50
M 20 x 1.5/13	8-12	5330020	7-12	5330120	5-12.5	5330220	50
M 20 x 1.5/16	10-14	5330021	9-14	5330121	7-14.5	5330221	50
M 25 x 1.5	11.5-18	5330025	11.5-18	5330125	10-18	5330225	20
M 32 x 1.5	15-24	5330032	15-24.5	5330132	14-24	5330232	20
M 40 x 1.5	24-34	5330040	24-34	5330140	22-32	5330240	10
M 50 x 1.5	34-42	5330050	34-42	5330150	30-40	5330250	10
M 63 x 1.5	40-48	5330063	40-48	5330163	34-46	5330263	5



PG Dimensions

Thread Size	H mm	E mm	L mm	ØC mm	ØP mm	ØM mm
M 16x1.5	19	15	39	8.5	9	16
M 20x1.5/13	24	15	42	12.5	13.5	20
M 20x1.5/16	27	15	45	14.5	15	20
M 25x1.5	33	15	48	18.5	19	25
M 32x1.5	42	15	58	25	25	32
M 40x1.5	55	15	63	35	34.5	40
M 50x1.5	65	15	65	43	42.5	50
M 63x1.5	70	15	65	51	51	63

Material:

Body: Nickel-plated brass
Seal: Tefabloc or Santoprene/Nitril
ECA clamping ring: Polycarbonate
Sealing ring for outer thread: Nitril

Technical properties:

- Strain relief through clamping ring
- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

Applications:

- Machines and devices
- Measuring and control engineering
- Plant installations

Characteristic feature:

PG/Metric thread
Extended Thread available

Temperature Range MS
-25 to 120° C (-13 to 248° F)



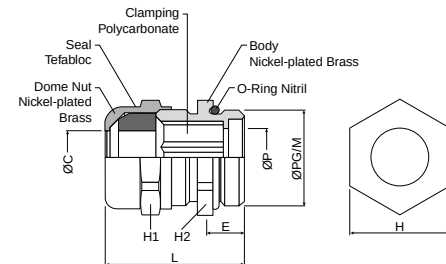
ECA Clamping Ring Nickel-Plated Brass

Outer thread	Clamping range mm	Cat. No.	Std. Pk.
PG			
PG 7	3-6	4221079	50
PG 9	5-8	4221095	50
PG 11	6-10	4221117	50
PG 13.5	8-12	4221133	50
PG 16	9.5-14	4221168	20
PG 21	11.5-18	4221214	20
PG 29	15-24	4221290	20
PG 36*	23-30	4221362	10
PG 42*	26-35	4221427	5
PG 48*	35-40	4221486	5
Metric			
M 12 x 1.5	3-6	4221714	50
M 16 x 5/7	3-6	4221716	50
M 16 x 5/9	5-8	4221717	50
M 20 x 1.5/11	6-10	4221720	50
M 20 x 1.5/13	8-12	4221721	50
M 25 x 1.5/16	9.5-14	4221725	20
M 25 x 1.5/21	11.5-18	4221726	20
M 32 x 1.5/21	11.5-18	4221732	10
M 32 x 1.5/29	15-24	4221733	10
M 40 x 1.5	15-24	4221740	5
M 50* x 1.5	23-30	4221750	5
M 63* x 1.5	26-35	4221760	5



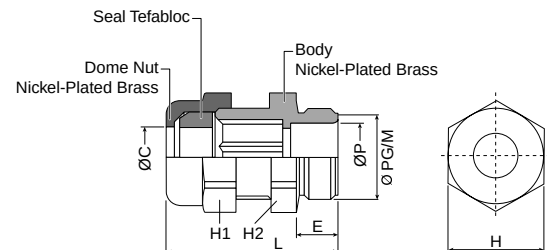
*Clamping ring made of polyoxymethylene (POM), temperature range -30°C to +95°C

Thread Size	H1 mm	H2 mm	E mm	L mm	ØC mm	ØP mm	ØPG/M mm
PG7	14	14	5	24	6.5	7.2	12.5
PG9	17	17	6	25	8.5	9.2	15.2
PG11	20	20	6	26	10.5	11.2	18.6
PG13.5	22	22	6.5	28	12.5	13.1	20.4
PG16	24	24	6.5	30	15.2	15.6	22.5
PG21	30	30	7	35	18.5	20.1	28.3
PG29	40	40	8	43	25.0	26.2	37.0
PG36	50	50	9	50	30.5	33.0	47.0
PG42	58	58	10	57	35.5	40.0	54.0
PG48	64	64	10	59	40.5	47.5	59.3
M 12x1.5	14	14	7	27	6.5	7.2	12
M 16x1.5/7	14	17	7	27	6.5	7.2	16
M 16x1.5/9	17	17	7	27	8.5	9.2	16
M 20x1.5/11	20	22	7	28	10.5	11.2	20
M 20x1.5/13	22	22	7	29	12.5	13.1	20
M 25x1.5/16	24	26	8	31	15.2	15.6	25
M 25x1.5/21	30	30	8	37	18.5	20.1	25
M 32x1.5/21	30	33	8.5	38	18.5	20.1	32
M 32x1.5/29	40	40	8.5	45	25.0	26.2	32
M 40x1.5	40	42	8.5	45	25.0	26.2	40
M 50x1.5	50	55	9.5	51	30.5	33.0	50
M 63x1.5	58	70	10.5	58	30.5	40.0	63



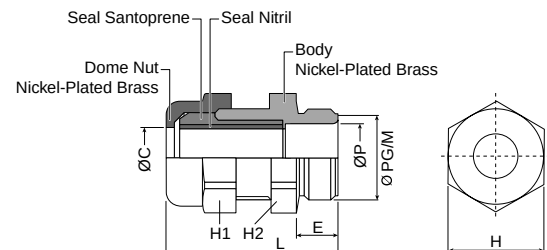
Short Seal Nickel-Plated Brass

PG			
PG 7	3-6	4221000	50
PG 9	5-8	4221001	50
PG 11	6-10	4221002	50
PG 13.5	8-12	4221003	50
PG 16	9.5-14	4221004	20
PG 21	11.5-18	4221005	20
PG 29	15-24	4221006	20
PG 36	23-30	4221007	10
PG 42	26-35	4221008	5
PG 48	35-40	4221009	5
Metric			
M 12 x 1.5	3-6	4221039	50
M 16 x 5/7	3-6	4221040	50
M 16 x 5/9	5-8	4221041	50
M 20 x 1.5/11	6-10	4221042	50
M 20 x 1.5/13	8-12	4221043	50
M 25 x 1.5/16	9.5-14	4221044	20
M 25 x 1.5/21	11.5-18	4221045	20
M 32 x 1.5/21	11.5-18	4221046	10
M 32 x 1.5/29	15-24	4221047	10
M 40 x 1.5	15-24	4221048	5
M 50 x 1.5	23-30	4221049	5
M 63 x 1.5	26-35	4221050	5



Long Seal, Two Part Nickel-Plated Brass

PG			
PG 9	5-8	4224001	50
PG 11	6-10	4224002	50
PG 13.5	8-12	4224003	50
PG 16	9.5-14	4224004	20
PG 21	11.5-18	4224005	20
PG 29	15-24	4224006	20
PG 36	23-30	4224007	10
PG 42	26-35	4224008	5
PG 48	35-40	4224009	5
Metric			
M 16 x 5/7	3-6	4224100	50
M 16 x 5/9	5-8	4224101	50
M 20 x 1.5/11	6-10	4224102	50
M 20 x 1.5/13	8-12	4224103	50
M 25 x 1.5/16	9.5-14	4224104	20
M 25 x 1.5/21	11.5-18	4224105	20
M 32 x 1.5/21	11.5-18	4224106	10
M 32 x 1.5/29	15-24	4224107	10



Cable Gland Industrial, Flat Seal, Nickel-Plated Brass

Material:

Body: Nickel-Plated Brass
Seal: Tefabloc
Sealing ring for outer thread: Nitril

Characteristic feature:

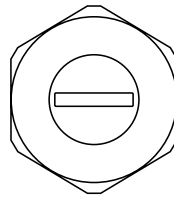
PG/metric thread
Seal for flat cable round, angular, oval
Extended thread available

Technical properties:

- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

Applications:

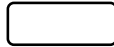
- Machines and devices
- Measuring and control engineering
- Plant installations



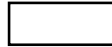
See page 15 for dimensions.



Flat Cable, Rounded



Flat Cable, Angular



Flat Cable, Oval



Outer thread	Clamping range mm	Cat. No.	Clamping range mm	Cat. No.	Clamping range mm	Cat. No.	Std. Pks.
PG							
PG 9	3.5 x 5.5	4224300					50
PG 11	2.8 x 10.5	4224305					50
PG 11	3.5 x 9	4224306					50
PG 11	4 x 6	4224307					50
PG 13.5	3 x 12	4224310			5 x 8	4224375	50
PG 13.5	5 x 11	4224311			5 x 12	4224376	50
PG 16	5 x 12	4224315	8 x 12	4224351	5 x 12	4224390	25
PG 16	7.5 x 14	4224317			5.5 x 8.5	4224380	25
PG 16					6 x 10	4224382	25
PG 16					7 x 14	4224384	25
PG 16/21	5 x 16	4224316			5 x 15	4224381	20
PG 16/21					6 x 15	4224383	20
PG 21	5 x 17	4224320	4 x 15	4224355	5 x 16	4224385	20
PG 21	7 x 18	4224321			7 x 16.5	4224386	20
PG 21	9 x 15	4224322					20
PG 21/29					7 x 20	4224387	10
PG 29	8 x 25	4224326					10
PG 29	10 x 25	4224327					10
Metric							
M 16 x 1.5/9	3.5 x 5.5	4224700					50
M 20 x 1.5/11	2.8 x 10.5	4224705					50
M 20 x 1.5/11	3.5 x 9	4224706					50
M 20 x 1.5/11	4 x 6	4224707					50
M 20 x 1.5/13	3 x 12	4224710			5 x 8	4224775	50
M 20 x 1.5/13	5 x 11	4224711			5 x 12	4224776	50
M 25 x 1.5/16	5 x 12	4224715	8 x 12	4224751	5 x 12	4224790	20
M 25 x 1.5/16	7.5 x 14	4224717			5.5 x 8.5	4224780	20
M 25 x 1.5/16					6 x 10	4224781	20
M 25 x 1.5/16					7 x 14	4224782	20
M 25 x 1.5/21	5 x 16	4224716	4 x 15	4224755	5 x 15	4224784	20
M 25 x 1.5/21	5 x 17	4224720			5 x 16	4224785	20
M 25 x 1.5/21	7 x 18	4224721			6 x 15	4224783	20
M 25 x 1.5/21	9 x 15	4224722			7 x 16.5	4224786	20
M 32 x 1.5/29	8 x 25	4224726			7 x 20	4224787	10
M 32 x 1.5/29	10 x 25	4224727					10

Material:

Body: Nickel-Plated Brass
Seal: Tefabloc
Sealing ring for outer thread: Nitril

Characteristic feature:

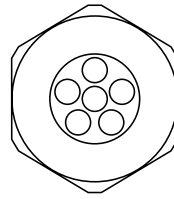
PG thread
Multi-holed seal inserts

Technical properties:

- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

Applications:

- Machines and devices
- Measuring and control engineering
- Plant installations



Temperature Range

MS

-25 to 120° C
(-13 to 248° F)



See page 15 for dimensions.

Outer thread	Hole Quantity	Hole diameter mm	Cat. No.	Std. Pk.	Outer thread	Hole Quantity	Hole diameter mm	Cat. No.	Std. Pk.
PG 7	1	4	4248640	50	PG 16	4	4	4248688	50
PG 7	1	5	4248641	50	PG 16	4	5	4248689	50
PG 9	1	5	4248642	50	PG 16	4	6	4248694	50
PG 9	2	1	4248643	50	PG 16	5	4	4248690	50
PG 9	2	3	4248644	50	PG 16	5	5	4248691	50
PG 9	2	3.5	4248645	50	PG 16	6	4	4248692	50
PG 9	2	4	4248646	50	PG 16	7	4	4248693	50
PG 9	3	3	4248647	50	PG 21	2	4.5	4248696	20
PG 9	4	3	4248648	50	PG 21	2	8	4248697	20
PG 9	4	4	4248649	50	PG 21	2	8.7	4248698	20
PG 11	2	2.3	4248650	50	PG 21	2	9	4248699	20
PG 11	2	3	4248651	50	PG 21	2	11	4248700	20
PG 11	2	3.5	4248405	50	PG 21	3	7	4248542	20
PG 11	2	4	4248652	50	PG 21	3	8	4248531	20
PG 11	2	5	4248660	50	PG 21	3	9	4248701	20
PG 11	2	6	4248661	50	PG 21	4	5	4248702	20
PG 11	3	3	4248653	50	PG 21	4	6	4248529	20
PG 11	3	3.5	4248407	50	PG 21	4	7.5	4248709	20
PG 11	3	4	4248654	50	PG 21	4	8	4248703	20
PG 11	3	5	4248662	50	PG 21	5	5	4248704	20
PG 11	3	5.3	4248655	50	PG 21	5	6	4248539	20
PG 11	4	1.5	4248656	50	PG 21	5	6.5	4248541	20
PG 11	4	3.5	4248657	50	PG 21	6	4	4248705	20
PG 11	6	2	4248658	50	PG 21	6	5	4248706	20
PG 11	6	2.5	4248659	50	PG 21	6	6	4248713	20
PG 13	2	3	4248663	50	PG 21	6	6.5	4248710	20
PG 13	2	5	4248664	50	PG 21	6	7	4248715	20
PG 13	2	6	4248404	50	PG 21	7	6	4248714	20
PG 13	3	2	4248665	50	PG 21	8	4	4248707	20
PG 13	3	3	4248666	50	PG 21	8	5	4248543	20
PG 13	3	4	4248667	50	PG 21	11	5	4248712	20
PG 13	3	5.3	4248668	50	PG 21	21	2	4248708	20
PG 13	3	6	4248669	50	PG 21	28	3	4248711	20
PG 13	4	3	4248670	50	PG 29	2	9	4248716	20
PG 13	4	4	4248671	50	PG 29	2	11	4248717	20
PG 13	4	5	4248673	50	PG 29	2	12	4248718	20
PG 13	4	5.3	4248672	50	PG 29	3	9	4248719	20
PG 13	6	3.5	4248674	50	PG 29	3	11	4248720	20
PG 13	10	2	4248675	50	PG 29	4	8	4248629	20
PG 16	2	4	4248678	50	PG 29	4	9	4248721	20
PG 16	2	5	4248679	50	PG 29	4	10	4248722	20
PG 16	2	6	4248680	50	PG 29	6	6	4248627	20
PG 16	2	7	4248409	50	PG 29	6	6.5	4248610	20
PG 16	2	8	4248681	50	PG 29	6	7	4248614	20
PG 16	2	9	4248682	50	PG 29	7	6	4248631	20
PG 16	3	3	4248683	50	PG 29	7	7	4248723	20
PG 16	3	4	4248684	50	PG 29	8	5	4248724	20
PG 16	3	5	4248677	50	PG 29	8	6	4248632	20
PG 16	3	5.6	4248685	50	PG 29	10	6	4248725	20
PG 16	3	6	4248686	50	PG 29	11	5	4248634	20
PG 16	3	7	4248695	50	PG 29	28	3	4248612	20
PG 16	3	8	4248687	50					

Cable Gland Industrial, Multi-Conductor Seal, Nickel-Plated Brass, Metric Thread

Material:

Body: Nickel-Plated Brass

Seal: Tefabloc

Sealing ring for outer thread: Nitril

Characteristic feature:

Metric thread

Multi-holed seal inserts

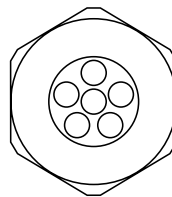
Extended thread available

Technical properties:

- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

Applications:

- Machines and devices
- Measuring and control engineering
- Plant installations



Temperature Range

MS

-25 to 120° C

(-13 to 248° F)



See page 15 for dimensions.

Outer thread	Hole Quantity	Hole diameter mm	Cat. No.	Std. Pk.
M 16 x 1.5	2	1	4249600	50
M 16 x 1.5	2	3	4249601	50
M 16 x 1.5	2	3.5	4249602	50
M 16 x 1.5	2	4	4249603	50
M 16 x 1.5	3	3	4249604	50
M 20 x 1.5	2	2.3	4249610	50
M 20 x 1.5	2	3	4249611	50
M 20 x 1.5	2	3.5	4249612	50
M 20 x 1.5	2	4	4249613	50
M 20 x 1.5	2	5	4249614	50
M 20 x 1.5	2	6	4249615	50
M 20 x 1.5	3	2	4249616	50
M 20 x 1.5	3	3	4249617	50
M 20 x 1.5	3	3.5	4249618	50
M 20 x 1.5	3	4	4249619	50
M 20 x 1.5	3	5.3	4249620	50
M 20 x 1.5	4	1.5	4249621	50
M 20 x 1.5	4	3	4249622	50
M 20 x 1.5	4	3.5	4249623	50
M 20 x 1.5	4	4	4249624	50
M 20 x 1.5	6	2	4249625	50
M 20 x 1.5	6	2.5	4249626	50
M 20 x 1.5	6	3.5	4249627	50
M 20 x 1.5	10	2	4249628	50
M 25 x 1.5	2	4	4249640	20
M 25 x 1.5	2	4.5	4249641	20
M 25 x 1.5	2	5	4249642	20
M 25 x 1.5	2	6	4249643	20
M 25 x 1.5	2	7	4249644	20
M 25 x 1.5	2	8	4249645	20
M 25 x 1.5	3	3	4249646	20
M 25 x 1.5	3	4	4249647	20
M 25 x 1.5	3	5	4249648	20
M 25 x 1.5	3	5.6	4249649	20
M 25 x 1.5	3	6	4249650	20
M 25 x 1.5	3	7	4249651	20
M 25 x 1.5	3	8	4249652	20
M 25 x 1.5	4	4	4249653	20
M 25 x 1.5	4	5	4249654	20
M 25 x 1.5	4	6	4249655	20
M 25 x 1.5	5	4	4249656	20
M 25 x 1.5	5	5	4249657	20
M 25 x 1.5	5	6	4249658	20
M 25 x 1.5	5	6.5	4249659	20
M 25 x 1.5	6	4	4249660	20
M 25 x 1.5	6	5	4249661	20
M 25 x 1.5	8	4	4249662	20
M 25 x 1.5	8	5	4249663	20
M 25 x 1.5	21	2	4249664	20
M 32 x 1.5	2	4.5	4249670	20
M 32 x 1.5	2	8	4249671	20
M 32 x 1.5	2	9	4249672	20
M 32 x 1.5	2	11	4249673	20
M 32 x 1.5	2	12	4249674	20
M 32 x 1.5	3	7	4249675	20
M 32 x 1.5	3	8	4249676	20

Outer thread	Hole Quantity	Hole diameter mm	Cat. No.	Std. Pk.
M 32 x 1.5	3	9	4249677	20
M 32 x 1.5	3	11	4249678	20
M 32 x 1.5	4	5	4249679	20
M 32 x 1.5	4	6	4249680	20
M 32 x 1.5	4	8	4249681	20
M 32 x 1.5	4	9	4249682	20
M 32 x 1.5	4	10	4249683	20
M 32 x 1.5	5	5	4249684	20
M 32 x 1.5	5	6	4249685	20
M 32 x 1.5	5	6.5	4249686	20
M 32 x 1.5	6	4	4249687	20
M 32 x 1.5	6	5	4249688	20
M 32 x 1.5	6	6	4249689	20
M 32 x 1.5	6	6.5	4249690	20
M 32 x 1.5	6	7	4249691	20
M 32 x 1.5	7	6	4249692	20
M 32 x 1.5	7	7	4249693	20
M 32 x 1.5	8	4	4249694	20
M 32 x 1.5	8	5	4249695	20
M 32 x 1.5	8	6	4249696	20
M 32 x 1.5	10	6	4249697	20
M 32 x 1.5	11	5	4249698	20
M 32 x 1.5	21	2	4249699	20
M 32 x 1.5	28	3	4249700	20

Material:

Body: Stainless Steel INOX 316L
Seal: Tefabloc or Santoprene/Nitril
ECA clamping ring: Polycarbonate
Sealing ring for outer thread: Nitril

Technical properties:

- Acid and lye resistant
- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

Applications:

- Machines and devices
- Measuring and control engineering
- Plant installations

Characteristic feature:

PG/Metric extended thread

Temperature Range EST
-25 to 120° C (-13 to 248° F)

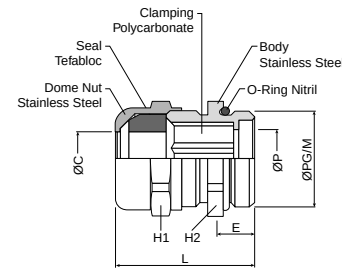


ECA Clamping Ring Stainless Steel

Outer thread	Clamping range mm	Cat. No.	Std. Pk.
PG			
PG 7	3-6	4222075	20
PG 9	5-8	4222091	20
PG 11	6-10	4222113	20
PG 13.5	8-12	4222130	10
PG 16	9.5-14	4222164	10
PG 21	11.5-18	4222210	5
PG 29	15-24	4222296	5
PG 36*	23-30	4222369	1
PG 42*	26-35	4222423	1
PG 48*	35-40	4222482	1
Metric			
M 12 x 1.5	3-6	4222012	20
M 16 x 5/7	3-6	4222016	20
M 16 x 5/9	5-8	4222017	20
M 20 x 1.5/11	6-10	4222020	10
M 20 x 1.5/13	8-12	4222021	10
M 25 x 1.5/16	9.5-14	4222025	5
M 25 x 1.5/21	11.5-18	4222026	5
M 32 x 1.5/21	11.5-18	4222032	1
M 32 x 1.5/29	15-24	4222033	1



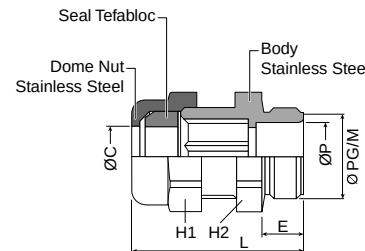
Thread Size	H1 mm	H2 mm	E mm	L mm	ØC mm	ØP mm	ØPG/M mm
PG7	14	14	15	34	6.5	7.2	12.5
PG9	17	17	15	34	8.5	9.2	15.2
PG11	20	20	15	35	10.5	11.2	18.6
PG13.5	22	22	15	36.5	12.5	13.1	20.4
PG16	24	24	15	36.5	15.2	15.6	22.5
PG21	30	30	15	43	18.5	20.1	28.3
PG29	40	40	15	50	25.0	26.2	37.0
PG36	50	50	18	59	30.5	33.0	47.0
PG42	58	58	18	65	35.5	40.0	54.0
PG48	64	64	18	67	40.5	47.5	59.3
M 12x1.5	14	14	13	33	6.5	7.2	12
M 16x1.5/7	14	17	13	33	6.5	7.2	16
M 16x1.5/9	17	17	13	33	8.5	9.2	16
M 20x1.5/11	20	22	13	34	10.5	11.2	20
M 20x1.5/13	22	22	13	35	12.5	13.1	20
M 25x1.5/16	24	26	14	37	15.2	15.6	25
M 25x1.5/21	30	30	14	43	18.5	20.1	25
M 32x1.5/21	30	33	14.5	44	18.5	20.1	32
M 32x1.5/29	40	40	14.5	51	25.0	26.2	32



*Clamping ring made of polyoxymethylene (POM), temperature range -30°C to +95°C

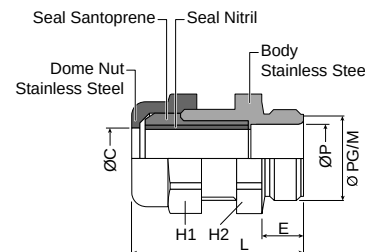
Short Seal Stainless Steel

PG			
PG 7	3-6	4222000	20
PG 9	4.5-8	4222001	20
PG 11	6.5-10.5	4222002	20
PG 13.5	7-12	4222003	10
PG 16	9-14	4222004	10
PG 21	11.5-18	4222005	5
PG 29	15-24.5	4222006	5
PG 36	24-34	4222007	1
PG 42	31-42	4222008	1
PG 48	40-48	4222009	1
Metric			
M 12 x 1.5	3-6	4222029	20
M 16 x 5/7	3-6	4222023	20
M 16 x 5/9	5-8	4222024	20
M 20 x 1.5/11	6-10	4222027	10
M 20 x 1.5/13	8-12	4222028	10
M 25 x 1.5/16	9.5-14	4222032	5
M 25 x 1.5/21	11.5-18	4222030	5
M 32 x 1.5/21	11.5-18	4222037	1
M 32 x 1.5/29	15-24	4222040	1



Long Seal, Two Part Stainless Steel

PG			
PG 9	5-8	4223001	20
PG 11	6-10	4223002	20
PG 13.5	8-12	4223003	10
PG 16	9.5-14	4223004	10
PG 21	11.5-18	4223005	5
PG 29	15-24	4223006	5
PG 36	23-30	4223007	1
PG 42	26-35	4223008	1
PG 48	35-40	4223009	1
Metric			
M 16 x 5/7	3-6	4223101	20
M 16 x 5/9	5-8	4223102	20
M 20 x 1.5/11	6-10	4223103	10
M 20 x 1.5/13	8-12	4223104	10
M 25 x 1.5/16	9.5-14	4223105	5
M 25 x 1.5/21	11.5-18	4223106	5
M 32 x 1.5/21	11.5-18	4223107	1
M 32 x 1.5/29	15-24	4223108	1



Cable Gland Industrial, Flat Seal, Stainless Steel INOX 316L

Material:

Body: Stainless Steel INOX 316L

Seal: Tefabloc

Sealing ring for outer thread: Nitril

Characteristic feature:

PG/metric extended thread

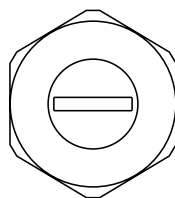
Seal for flat cables, (rounded, angular, oval)

Technical properties:

- Acid and lye resistant
- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

Applications:

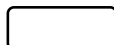
- Machines and devices
- Measuring and control engineering
- Plant installations



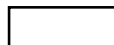
See page 19 for dimensions.



Flat Cable, Rounded



Flat Cable, Angular



Flat Cable, Oval



Outer thread	Clamping range mm	Cat. No.	Clamping range mm	Cat. No.	Clamping range mm	Cat. No.	Std. Pk.
PG							
PG 9	3.5 x 5.5	4223300					50
PG 11	2.8 x 10.5	4223305					50
PG 11	3.5 x 9	4223306					50
PG 11	4 x 6	4223307					50
PG 13.5	3 x 12	4223310			5 x 8	4223375	50
PG 13.5	5 x 11	4223311			5 x 12	4223376	50
PG 16	5 x 12	4223315	8 x 12	4223351	5 x 12	4223381	20
PG 16	7.5 x 14	4223317			5.5 x 8.5	4223380	20
PG 16					6 x 10	4223383	20
PG 16					7 x 14	4223382	20
PG 21	5 x 16	4223316	4 x 15	4223355	5 x 15	4223384	20
PG 21	5 x 17	4223320			5 x 16	4223385	20
PG 21	7 x 18	4223321			6 x 15	4223387	20
PG 21	9 x 15	4223322			7 x 16.5	4223386	20
PG 29	8 x 25	4223326			7 x 20	4223390	10
PG 29	10 x 25	4223327					10
Metric							
M 16 x 1.5/9	3.5 x 5	4223400					50
M 20 x 1.5/11	2.8 x 10.5	4223405					50
M 20 x 1.5/11	3.5 x 9	4223406					50
M 20 x 1.5/11	4 x 6	4223407					50
M 20 x 1.5/13	3 x 12	4223410			5 x 8	4223475	50
M 20 x 1.5/13	5 x 11	4223411			5 x 12	4223476	50
M 25 x 1.5/16	5 x 12	4223415	8 x 12	4223451	5 x 12	4223481	20
M 25 x 1.5/16	7.5 x 14	4223417			5.5 x 8.5	4223480	20
M 25 x 1.5/16					6 x 10	4223483	20
M 25 x 1.5/16					7 x 14	4223482	20
M 25 x 1.5/21	5 x 16	4223416	4 x 15	4223455	5 x 15	4223484	20
M 25 x 1.5/21	5 x 17	4223420			5 x 16	4223485	20
M 25 x 1.5/21	7 x 18	4223421			6 x 15	4223487	20
M 25 x 1.5/21	9 x 15	4223422			7 x 16.5	4223486	20
M 32 x 1.5/29	8 x 25	4223426			7 x 20	4223490	10
M 32 x 1.5/29	10 x 25	4223427					10

Material:

Body: Stainless Steel INOX 316L
Seal: Tefabloc
Sealing ring for outer thread: Nitril

Characteristic feature:

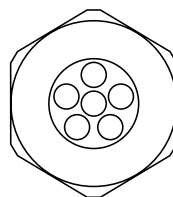
PG extended thread
Multi-conductor seal inserts

Technical properties:

- Acid and lye resistant
- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

Applications:

- Machines and devices
- Measuring and control engineering
- Plant installations



Temperature Range

EST

-25 to 120° C
(-13 to 248° F)



See page 19 for dimensions.

Outer thread	Hole Quantity	Hole diameter mm	Cat. No.	Std. Pk.	Outer thread	Hole Quantity	Hole diameter mm	Cat. No.	Std. Pk.
PG 7	1	4	4223600	50	PG 16	4	4	4223713	20
PG 7	1	5	4223601	50	PG 16	4	5	4223714	20
PG 9	1	5	4223620	50	PG 16	4	6	4223715	20
PG 9	2	1	4223621	50	PG 16	5	4	4223716	20
PG 9	2	3	4223622	50	PG 16	5	5	4223717	20
PG 9	2	3.5	4223623	50	PG 16	6	4	4223718	20
PG 9	2	4	4223624	50	PG 16	7	4	4223719	20
PG 9	3	3	4223625	50	PG 21	2	4.5	4223730	20
PG 9	4	3	4223626	50	PG 21	2	8	4223731	20
PG 9	4	4	4223627	50	PG 21	2	8.7	4223732	20
PG 11	2	2.3	4223640	50	PG 21	2	9	4223733	20
PG 11	2	3	4223641	50	PG 21	2	11	4223734	20
PG 11	2	3.5	4223642	50	PG 21	3	7	4223735	20
PG 11	2	4	4223643	50	PG 21	3	8	4223736	20
PG 11	2	5	4223644	50	PG 21	3	9	4223737	20
PG 11	2	6	4223645	50	PG 21	4	5	4223738	20
PG 11	3	3	4223646	50	PG 21	4	6	4223739	20
PG 11	3	3.5	4223647	50	PG 21	4	7.5	4223740	20
PG 11	3	4	4223648	50	PG 21	4	8	4223741	20
PG 11	3	5	4223649	50	PG 21	5	5	4223742	20
PG 11	3	5.3	4223650	50	PG 21	5	6	4223743	20
PG 11	4	1.5	4223651	50	PG 21	5	6.5	4223744	20
PG 11	4	3.5	4223652	50	PG 21	6	4	4223745	20
PG 11	6	2	4223653	50	PG 21	6	5	4223746	20
PG 11	6	2.5	4223654	50	PG 21	6	6	4223747	20
PG 13	2	3	4223670	50	PG 21	6	6.5	4223748	20
PG 13	2	5	4223671	50	PG 21	6	7	4223749	20
PG 13	2	6	4223672	50	PG 21	7	6	4223750	20
PG 13	3	2	4223673	50	PG 21	8	4	4223751	20
PG 13	3	3	4223674	50	PG 21	8	5	4223752	20
PG 13	3	4	4223675	50	PG 21	11	5	4223753	20
PG 13	3	5.3	4223676	50	PG 21	21	2	4223754	20
PG 13	3	6	4223677	50	PG 21	28	3	4223755	20
PG 13	4	3	4223678	50	PG 29	2	9	4223770	10
PG 13	4	4	4223679	50	PG 29	2	11	4223771	10
PG 13	4	5	4223680	50	PG 29	2	12	4223772	10
PG 13	4	5.3	4223681	50	PG 29	3	9	4223773	10
PG 13	6	3.5	4223682	50	PG 29	3	11	4223774	10
PG 13	10	2	4223683	50	PG 29	4	8	4223775	10
PG 16	2	4	4223700	20	PG 29	4	9	4223776	10
PG 16	2	5	4223701	20	PG 29	4	10	4223777	10
PG 16	2	6	4223702	20	PG 29	6	6	4223778	10
PG 16	2	7	4223703	20	PG 29	6	6.5	4223779	10
PG 16	2	8	4223704	20	PG 29	6	7	4223780	10
PG 16	2	9	4223705	20	PG 29	7	6	4223781	10
PG 16	3	3	4223706	20	PG 29	7	7	4223782	10
PG 16	3	4	4223707	20	PG 29	8	5	4223783	10
PG 16	3	5	4223708	20	PG 29	8	6	4223784	10
PG 16	3	5.6	4223709	20	PG 29	10	6	4223785	10
PG 16	3	6	4223710	20	PG 29	11	5	4223786	10
PG 16	3	7	4223711	20	PG 29	28	3	4223787	10
PG 16	3	8	4223712	20					

Cable Gland Industrial, Multi-Conductor Seal, Stainless Steel INOX 316L, Metric thread

Material:

Body: Stainless Steel INOX 316L
Seal: Tefabloc
Sealing ring for outer thread: Nitril

Characteristic feature:

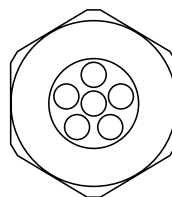
Metric extended thread
Multi-conductor seal inserts

Technical properties:

- Acid and lye resistant
- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

Applications:

- Machines and devices
- Measuring and control engineering
- Plant installations



Temperature Range

EST

-25 to 120° C
(-13 to 248° F)



See page 19 for dimensions.

Outer thread	Hole Quantity	Hole diameter mm	Cat. No.	Std. Pk.
M 16 x 1.5	2	1	4223800	50
M 16 x 1.5	2	3	4223801	50
M 16 x 1.5	2	3.5	4223802	50
M 16 x 1.5	2	4	4223803	50
M 16 x 1.5	3	3	4223804	50
M 20 x 1.5	2	2.3	4223810	50
M 20 x 1.5	2	3	4223811	50
M 20 x 1.5	2	3.5	4223812	50
M 20 x 1.5	2	4	4223813	50
M 20 x 1.5	2	5	4223814	50
M 20 x 1.5	2	6	4223815	50
M 20 x 1.5	3	2	4223816	50
M 20 x 1.5	3	3	4223817	50
M 20 x 1.5	3	3.5	4223818	50
M 20 x 1.5	3	4	4223819	50
M 20 x 1.5	3	5.3	4223820	50
M 20 x 1.5	4	1.5	4223821	50
M 20 x 1.5	4	3	4223822	50
M 20 x 1.5	4	3.5	4223823	50
M 20 x 1.5	4	4	4223824	50
M 20 x 1.5	6	2	4223825	50
M 20 x 1.5	6	2.5	4223826	50
M 20 x 1.5	6	3.5	4223827	50
M 20 x 1.5	10	2	4223828	50
M 25 x 1.5	2	4	4223830	20
M 25 x 1.5	2	4.5	4223831	20
M 25 x 1.5	2	5	4223832	20
M 25 x 1.5	2	6	4223833	20
M 25 x 1.5	2	7	4223834	20
M 25 x 1.5	2	8	4223835	20
M 25 x 1.5	3	3	4223836	20
M 25 x 1.5	3	4	4223837	20
M 25 x 1.5	3	5	4223838	20
M 25 x 1.5	3	5.6	4223839	20
M 25 x 1.5	3	6	4223840	20
M 25 x 1.5	3	7	4223841	20
M 25 x 1.5	3	8	4223842	20
M 25 x 1.5	4	4	4223843	20
M 25 x 1.5	4	5	4223844	20
M 25 x 1.5	4	6	4223845	20
M 25 x 1.5	5	4	4223846	20
M 25 x 1.5	5	5	4223847	20
M 25 x 1.5	5	6	4223848	20
M 25 x 1.5	5	6.5	4223849	20
M 25 x 1.5	6	4	4223850	20
M 25 x 1.5	6	5	4223851	20
M 25 x 1.5	8	4	4223852	20
M 25 x 1.5	8	5	4223853	20
M 25 x 1.5	21	2	4223854	20
M 32 x 1.5	2	4.5	4223860	10
M 32 x 1.5	2	8	4223861	10
M 32 x 1.5	2	9	4223862	10
M 32 x 1.5	2	11	4223863	10
M 32 x 1.5	2	12	4223864	10
M 32 x 1.5	3	7	4223865	10
M 32 x 1.5	3	8	4223866	10

Outer thread	Hole Quantity	Hole diameter mm	Cat. No.	Std. Pk.
M 32 x 1.5	3	9	4223867	10
M 32 x 1.5	3	11	4223868	10
M 32 x 1.5	4	5	4223869	10
M 32 x 1.5	4	6	4223870	10
M 32 x 1.5	4	8	4223871	10
M 32 x 1.5	4	9	4223872	10
M 32 x 1.5	4	10	4223873	10
M 32 x 1.5	5	5	4223874	10
M 32 x 1.5	5	6	4223875	10
M 32 x 1.5	5	6.5	4223876	10
M 32 x 1.5	6	4	4223877	10
M 32 x 1.5	6	5	4223878	10
M 32 x 1.5	6	6	4223879	10
M 32 x 1.5	6	6.5	4223880	10
M 32 x 1.5	6	7	4223881	10
M 32 x 1.5	7	6	4223882	10
M 32 x 1.5	7	7	4223883	10
M 32 x 1.5	8	4	4223884	10
M 32 x 1.5	8	5	4223885	10
M 32 x 1.5	8	6	4223886	10
M 32 x 1.5	10	6	4223887	10
M 32 x 1.5	11	5	4223888	10
M 32 x 1.5	21	2	4223889	10
M 32 x 1.5	28	3	4223890	10

Material:

Body: Polyamide PA 6
25 % Glass fiber Reinforced
Seal: Neoprene
ECA clamping ring: Polycarbonate

Characteristic feature:

PG/Metric thread
Extended thread available
Strain relief through clamping ring

Applications:

- For explosion endangered areas according to EN 50014 and EN 50019
- Machines and devices
- Measuring and control engineering
- Plant installations



Temperature Range PA 6

-20 to 55° C (-4 to 131 ° F)

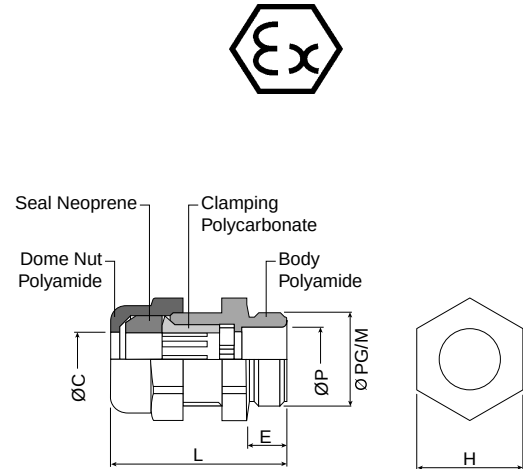
Thread Size	Dimensions					
	H mm	E mm	L mm	ØC mm	ØP mm	ØPG/M mm
PG7	15	8	31	6.5	7.0	12.5
PG9	19	8	32	8.5	9.0	15.2
PG11	22	8	35	11.5	11.0	18.6
PG13.5	24	9	36	12.5	13.5	20.4
PG16	27	10	40	14.5	15.0	22.5
PG21	33	11	44	18.5	19.0	28.3
PG29	42	12	55	25.0	25.0	37.0
M 16x1.5	19	8	32	8.5	9.0	16.0
M 20x1.5/13	24	9	36	12.5	13.5	20.0
M 20x1.5/16	27	9	39	14.5	15.0	20.0
M 25x1.5	33	11	44	18.5	19.0	25.0
M 32x1.5	42	12	55	25.0	25.0	32.0



ECA Clamping Ring

Outer thread	Clamping range mm	Cat. No. Dark Grey	Cat. No. Black	Std. Pk.
PG				
PG 9	5.5 - 8.5	5507009	5507050	50
PG 11	6.5 - 10.5	5507011	5507051	50
PG 13.5	8.0 - 12.5	5507013	5507052	50
PG 16	10.0 - 14.0	5507016	5507053	50
PG 21	12.5 - 18.5	5507021	5507054	20
PG 29	18.0 - 25.0	5507029	5507055	20

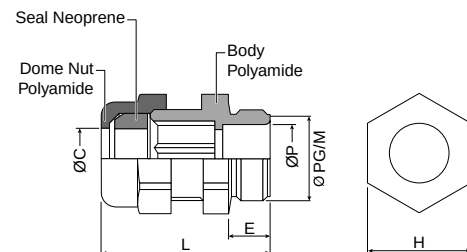
Metric				
M 16 x 1.5	5.5 - 8.5	5507216	5507250	50
M 20 x 1.5/13	8.0 - 12.5	5507220	5507251	50
M 20 x 1.5/16	10.0 - 14.0	5507221	5507252	50
M 25 x 1.5	12.5 - 18.5	5507225	5507253	20
M 32 x 1.5	18.0 - 25.0	5507232	5507254	20



Short Seal

Outer thread	Clamping range mm	Cat. No. Dark Grey	Cat. No. Black	Std. Pk.
PG				
PG 9	4.5 - 8.0	5508009	5508050	50
PG 11	5.5 - 10.5	5508011	5508051	50
PG 13.5	7.0 - 12.0	5508013	5508052	50
PG 16	9.0 - 14.0	5508016	5508053	50
PG 21	11.5 - 18.0	5508021	5508054	20
PG 29	16.0 - 24.5	5508029	5508055	20

Metric				
M 16 x 1.5	4.5 - 8.0	5808216	5808250	50
M 20 x 1.5/13	7.0 - 12.0	5808220	5808251	50
M 20 x 1.5/16	9.0 - 14.0	5808221	5808252	50
M 25 x 1.5	11.5 - 18.0	5808225	5808253	20
M 32 x 1.5	16.0 - 24.5	5808232	5808254	20



Cable Gland Industrial, EMC, Nickel-Plated Brass

Material:

Body: Nickel-plated brass
Seal: Tefabloc
Clamping ring
for grounding connection:
Tin-plated plastic
Seal ring for outer thread: Nitril

Characteristic feature:

PG/Metric thread

Technical properties:

- Continuous EMC protection due to tin-plated plastic
- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

Applications:

- Machines and devices
- Measuring and control engineering
- Plant installations



Temperature Range MS

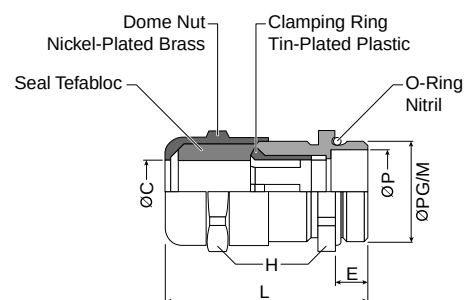
-25 to 120° C (-13 to 248° F)



Dimensions

Thread Size	H mm	E mm	L mm	ØC mm	ØP mm	ØPG/M mm
PG7	14	5	31	6.5	7.0	12.5
PG9	17	6	32	8.5	9.0	15.2
PG11	20	6	35	11.5	11.0	18.6
PG13.5	22	6.5	36	12.5	13.5	20.4
PG16	24	6.5	40	14.5	15.0	22.5
PG21	30	7	44	18.5	19.0	28.3
PG29	40	8	55	25.0	25.0	37.0
M 12x1.5/7	14	7	32	8.5	9.0	12.0
M 16x1.5/7	14	7	32	8.5	9.0	16.0
M 16x1.5/9	17	7	32	8.5	9.0	16.0
M 20x1.5/11	20	7	36	12.5	13.5	20.0
M 20x1.5/13	22	7	40	14.5	15.0	20.0
M 25x1.5/16	24	8	44	18.5	19.0	25.0
M 25x1.5/21	30	8	44	18.5	19.0	25.0
M 32x1.5/21	30	8.5	44	18.5	19.0	32.0
M 32x1.5/29	40	8.5	44	18.5	19.0	32.0

Outer thread	Cable Clamping range mm	Shield Clamping range mm	Cat. No.	Std. Pk.
PG				
PG 7	4 - 6.5	3 - 6.5	4264007	50
PG 9	5 - 8.5	4.5 - 8.5	4264009	50
PG 11	7 - 11	6 - 10.5	4264011	50
PG 13	8 - 12.5	8 - 12.5	4264013	50
PG 16	10 - 14.5	10 - 14.5	4264016	20
PG 21	12.5 - 18	11.5 - 18	4264021	20
PG 29	16 - 24	15 - 24	4264029	10
Metric				
M 12 x 1.5/7	4 - 6.5	3 - 6.5	4264112	50
M 16 x 1.5/7	4 - 6.5	3 - 6.5	4264116	50
M 16 x 1.5/9	5 - 8.5	4.5 - 8.5	4264117	50
M 20 x 1.5/11	7 - 11	6 - 10.5	4264120	50
M 20 x 1.5/13	8 - 12.5	8 - 12.5	4264121	50
M 25 x 1.5/16	10 - 14.5	10 - 14.5	4264125	20
M 25 x 1.5/21	12.5 - 18	11.5 - 18	4264126	20
M 32 x 1.5/21	12.5 - 18	11.5 - 18	4264132	10
M 32 x 1.5/29	16 - 24	15 - 24	4264133	10



Material:

Body: Nickel-plated brass
Seal: Santoprene
O-ring: Perbunan

Characteristic feature:

PG thread

Technical properties:

- EMC protection due to pressure rings and circular spring
- Gas and water-tight
- Completely twist protected

Applications:

- Machines and devices
- Measuring and control engineering
- Plant installations



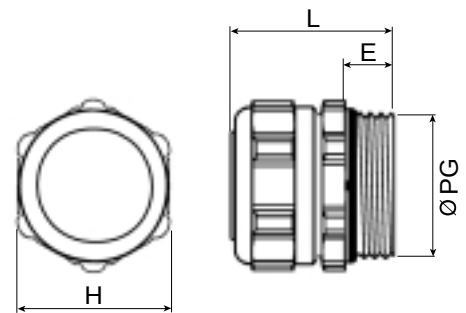
Thread Size	Dimensions			ØPG mm
	H mm	E mm	L mm	
PG9	20	6	34	15.2
PG11	24	10	41	18.6
PG13.5	24	10	41	20.4
PG16	30	11	43	22.5
PG21	30	12	44	28.3
PG29	40	13	53	37.0
PG36	50	14	61	47.0
PG42	60	15	65	54.0

Temperature Range MS

-40 to 135° C (-40 to 275° F)



Outer thread	Cable Clamping range mm	Shield Clamping range mm	Cat. No.	Std. Pk.
PG				
PG 9	4 - 6	2.5 - 6	4266003	25
PG 9	6.5 - 9.5	2.5 - 8.5	4266004	25
PG 11	4 - 6	3 - 6	4266006	25
PG 11	6 - 9	3.5 - 7.5	4266007	25
PG 11	7 - 10.5	4 - 8.5	4266008	25
PG 13.5	4 - 6	4 - 6	4266010	25
PG 13.5	6 - 9	3.5 - 7.5	4266011	25
PG 13.5	7 - 10.5	4 - 8	4266013	25
PG 16	6 - 9.5	6 - 9	4266015	25
PG 16	6 - 10.5	6 - 9	4266014	25
PG 16	8 - 12	6 - 10	4266018	25
PG 16	10 - 14	9 - 13	4266016	25
PG 16	14 - 18	9 - 13	4266020	25
PG 21	6 - 10.5	6 - 10	4266023	20
PG 21	10 - 14	9 - 13	4266021	20
PG 21	14 - 18	9 - 13	4266024	20
PG 21	14 - 18	12.5 - 17.5	4266025	20
PG 21	17 - 20	12 - 18	4266022	20
PG 29	19 - 23	15 - 21	4266028	20
PG 29	22 - 27	15 - 21	4266029	20
PG 36	25 - 29	18 - 25.5	4266031	10
PG 36	29 - 32	24 - 31	4266033	10
PG 42	37 - 41	29 - 33	4266035	10



Cable Gland, EMC, Nickel-Plated Brass

Material:

Body: Nickel-plated brass

Seal: Perbunan N

Sealing ring for outer thread: Nitril

Characteristic feature:

PG thread

Technical properties:

- Shield contact through clamping chuck with integrated clamp protection
- Gas and water-tight
- Completely twist protected
- Combinable with various sealing inserts

Applications:

- Machines and devices
- Measuring and control engineering
- Plant installations

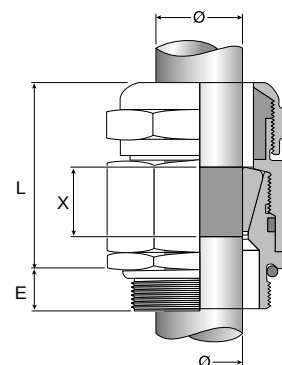
Temperature Range MS
-20 to 100° C (-4 to 212° F)

PROTECTION
IP68
RATING



Outer thread	Cable Clamping range mm	Shield Clamping range mm	Cat. No.	Std. Pk.
PG				
PG 9	6 - 8	3.1 - 4	4276040	25
PG 9	7.5 - 10	4.1 - 5	4276050	25
PG 9	7.5 - 10	5.1 - 6	4276060	25
PG 11	7 - 10	6.1 - 7	4276070	25
PG 11	8 - 12	7.1 - 8	4276080	25
PG 11	8 - 12	8.1 - 9	4276090	25
PG 16	11 - 15	9.1 - 10	4276100	25
PG 16	11 - 15	10.1 - 11	4276110	25
PG 16	14 - 17	11.1 - 12	4276120	25
PG 16	14 - 17	12.1 - 13	4276130	25
PG 21	15 - 20.5	13.1 - 14	4276140	25
PG 21	15 - 20.5	14.1 - 15	4276150	25
PG 21	15 - 20.5	15.1 - 16	4276160	25
PG 21	19 - 22	16.1 - 17	4276170	25
PG 21	19 - 22	17.1 - 18	4276180	25
PG 29	20 - 26	18.1 - 19.5	4276195	20
PG 29	20 - 26	19.6 - 21	4276210	20
PG 29	22 - 28	21.1 - 22.5	4276225	20
PG 29	26 - 32	22.6 - 24	4276240	20
PG 36	25 - 35	23.1 - 25	4276250	10
PG 36	25 - 35	25.1 - 27	4276270	10
PG 36	30 - 35	27.1 - 29	4276290	10
PG 48	31 - 35	29.1 - 31	4276310	10
PG 48	35 - 45	31.1 - 33	4276330	10
PG 48	35 - 45	33.1 - 35	4276350	10
PG 48	35 - 45	35.1 - 37	4276370	10

Thread Size	Dimensions			
	L mm	E mm	H mm	X mm
PG9	18	6	26	13
PG11	20/22	8	30	13
PG16	24	8	33	13
PG21	32	8	38	16
PG29	38	10	43	16
PG36	50	12	55	22
PG48	64	15	63	27



Material:

Nickel-plated brass
Sealing ring: Neoprene

Characteristic feature:

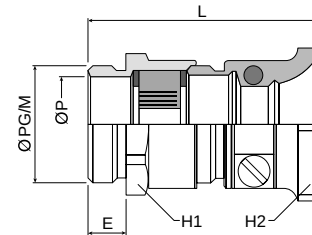
PG/Metric thread
Sealing ring, punchable

Applications:

- Tension proof grip
- Grounding connection possible
- Protects bent cable

Temperature Range PA
-25 to 100° C (-13 to 212° F)

PROTECTION
IP65
RATING



Type ZEVB Nickel-Plated Brass

with traction relief and kink protection

Outer thread	Clamping range Seal mm	Clamping range traction relief mm	Cat. No.	Std. Pk.
PG				
PG 9	2 - 9	6 - 9.5	4308093	50
PG 11	4 - 11	8 - 11.5	4308115	50
PG 13.5	4.5 - 12	9 - 13	4308131	50
PG 16	5.5 - 14.5	10 - 15	4308166	25
PG 21	8 - 19	14 - 20	4308212	25
PG 29	12 - 27	19 - 30	4308298	10
Metric				
M 16 x 1.5	2 - 9	6 - 9.5	4308516	100
M 20 x 1.5	4 - 11	8 - 11.5	4308520	100
M 20 x 1.5	4.5 - 12	9 - 13	4308521	100
M 25 x 1.5	5.5 - 14.5	10 - 15	4308525	50
M 25 x 1.5	8 - 18	14 - 20	4308526	25
M 32 x 1.5	8 - 19	14 - 20	4308532	25
M 32 x 1.5	12 - 27	19 - 30	4308533	25

Thread Size	Dimensions					ØP	ØPG/M
	H1 mm	H2 mm	E mm	L mm			
PG9	17	22	6	34		12.5	15.2
PG11	20	24	6	36		15	18.6
PG13	22	28	6.5	37		17	20.4
PG16	24	30	6.5	40		18.5	22.5
PG21	30	38	7	43		24	28.3
PG29	40	50	8	48		32	37
M16	17	22	7	35		12.5	16
M20	20	24	7	37		15	20
M20	22	28	7	37.5		16	20
M25	26	30	8	41.5		18.5	25
M25	32	38	8	44		18.5	25
M32	32	38	8.5	44.5		24	32
M32	40	50	8.5	48.5		28	32

Material:

Nickel-plated brass
Sealing ring: Neoprene

Characteristic feature:

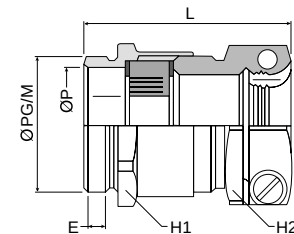
PG/Metric thread

Applications:

- Centered traction relief
- No cable twisting while clamping
- Tension proof grip
- Grounding connection possible

Temperature Range PA
-25 to 100° C (-13 to 212° F)

PROTECTION
IP65
RATING



Type ZA Nickel-Plated Brass

with centered traction relief and kink protection

Outer thread	Clamping range Seal mm	Clamping range traction relief mm	Cat. No.	Std. Pk.
PG				
PG 7	4 - 6	5.5 - 7.5	4305078	100
Pg 9	2 - 9	6.5 - 9.5	4305094	50
PG 11	4 - 11	7.5 - 11.5	4305116	50
PG 13	4.5 - 12	8.5 - 13.5	4305132	50
PG 16	5.5 - 14.5	10.5 - 16.5	4305167	25
PG 21	8 - 19	12 - 20.5	4305213	25
PG 29	12 - 27	19 - 29.5	4305299	10
PG 36	22 - 33	24 - 36.5	4305361	10
PG 42	25 - 40	33 - 42.5	4305426	5
PG 48	30 - 45	36 - 47.5	4305485	5
Metric				
M 12 x 1.5	4 - 6	5.5 - 7.5	4305500	50
M 16 x 1.5	2 - 9	6.6 - 9.5	4305501	50
M 16 x 1.5	4 - 11	7.5 - 11.5	4305502	50
M 16 x 1.5	4.5 - 12	8.5 - 13.5	4305503	50
M 20 x 1.5	4 - 11	7.5 - 11.5	4305504	50
M 20 x 1.5	4.5 - 12	8.5 - 13.5	4305505	50
M 20 x 1.5	5.5 - 14.5	10.5 - 16.5	4305506	50
M 25 x 1.5	5.5 - 14.5	10.5 - 16.5	4305507	20
M 32 x 1.5	8 - 19	12 - 20.5	4305508	20
M 32 x 1.5	12 - 27	19 - 29.5	4305509	20
M 40 x 1.5	12 - 27	19 - 29.5	4305510	20
M 50 x 1.5	22 - 33	24 - 36.5	4305511	10
M 50 x 1.5	25 - 40	33 - 42.5	4305512	10
M 63 x 1.5	25 - 40	33 - 42.6	4305513	5
M 63 x 1.5	30 - 45	36 - 47.5	4305514	5
M 75 x 1.5	30 - 45	36 - 47.5	4305515	1

Thread Size	Dimensions					ØP	ØPG/M
	H1 mm	H2 mm	E mm	L mm			
PG7	14	16	5	29		10	12.5
PG9	17	19	6	34		12.5	15.2
PG11	20	22	6	35		15	18.6
PG13	22	24	6.5	36		17	20.4
PG16	24	27	6.5	36		18.5	22.5
PG21	30	33	7	42		24	28.3
PG29	40	42	8	47		32	37
PG36	50	52	9	53		42	47
PG42	57	60	10	65		48	54
PG48	64	64	10	68		52.5	59.3
M12	14	16	7	29		8	12
M16	17	19	7	34		12.5	16
M16	20	22	7	34		12.5	16
M16	22	24	7	35		12.5	16
M20	20	22	7	34		15	20
M20	22	24	7	39		16	20
M20	24	27	7	34		16	20
M25	26	27	8	40		18.5	25
M32	32	33	8.5	43		24	32
M32	40	42	8.5	46		28	32
M40	40	42	8.5	45		32	40
M50	50	52	9.5	50		42	50
M50	58	60	9.5	54		42	50
M63	64	60	10.5	55		48	63
M63	64	64	10.5	56		48	63
M75	80	64	11.5	56		52.5	75

Cable Gland Industrial, with traction relief and kink protection, Polyamide

Material:

Body: Polyamide 6

Seal: Neoprene

Characteristic feature:

PG/Metric/NPT threads



Temperature Range PA
-20 to 100° C (-4 to 212° F)

Technical properties:

- Optimal strain relief through clamping range
- Seals against housing through sealing lip
- Trapezoidal threading with high torque guarantees tight and permanent fit of the dome nut
- also available with reduction insert
- Gas and water tight

Applications:

- Machines and devices



Outer thread	Clamping range mm	Cat. No. Dark Grey	Cat. No. Black	Std. Pk.
PG				
PG 7	2.5 - 6.5	5306007	5306107	50
PG 9	3 - 8	5306009	5306109	50
PG 11/1	4 - 10	5306011	5306111	50
PG 11/2	2 - 7	5306012	5306112	50
PG 13/1	5.5 - 12	5306013	5306113	50
PG 13/2	3 - 7	5306014	5306114	50
PG 16/1	8.5 - 14	5306016	5306116	25
PG 16/2	5 - 11	5306017	5306117	25
Metric				
M 12 x 1.5/K/6.5	2.5 - 6.5	5306030	5306130	50
M 16 x 1.5/K/8	3 - 8	5306031	5306131	50
M 20 x 1.5/K/7	3 - 7	5306032	5306132	50
M 20 x 1.5/K/12	5.5 - 12	5306033	5306133	50
NPT				
NPT 3/8"/8	3 - 8	5306050	5306150	50
NPT 1/2"/7	3 - 7	5306051	5306151	50
NPT 1/2"/12	5.5 - 12	5306052	5306152	50

Thread Size	Dimensions			ØPG/M/NPT mm
	H mm	E mm	L mm	
PG7	15	8	54	12.5
PG9	19	8	64	15.2
PG11/1	22	8	77	18.6
PG11/2	22	8	77	18.6
PG13/1	24	9	88	20.4
PG13/2	24	9	88	20.4
PG16/1	27	10	102	22.5
PG16/2	27	10	102	22.5
M 12x1.5/K/6.5	15	6	54	12
M 16x1.5/K/8	19	6	64	16
M 20x1.5/K/7	24	8	88	20
M 20x1.5/K/12	24	8	88	20
NPT 3/8"/8	19/22	15	64	17.1
NPT 1/2"/7	24	15	88	21.2
NPT 1/2"/12	24	15	88	21.2

Material:
Polystyrene
Seal:
Neoprene

Characteristic feature:
Hexagon base
PG Thread

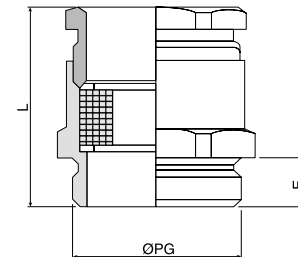


Temperature Range PS
-20 to 70° C (-4 to 158° F)

according to DIN 46320

Outer thread	Clamping range mm	Cat. No. Lt. Gray	Std. Pk.
PG			
PG 7	3.5 - 6	5202078	50
PG 9	4.5 - 7	5202094	50
PG 11	6 - 9	5202116	50
PG 13.5	9 - 12	5202132	50
PG 16	11 - 14	5202167	50
PG 21	14 - 18	5202213	25
PG 29	18 - 25	5202299	25
PG 36	25 - 32	5202361	10
PG 42	30 - 38	5202434	10
PG 48	36 - 44	5202485	10

Thread Size	Dimensions	
	E mm	L mm
PG7	8	29
PG9	8	31.5
PG11	8	33
PG13.5	9.5	36
PG16	10	40.5
PG21	11	43.5
PG29	11	46
PG36	13	57
PG42	13	61
PG48	14	60



Cable Gland, with round intermediate part, Nickel-Plated Brass

Material:
Nickel-plated brass

Seal:
Neoprene

Characteristic feature:
Simple sealing ring
PG/Metric thread
Extended thread available



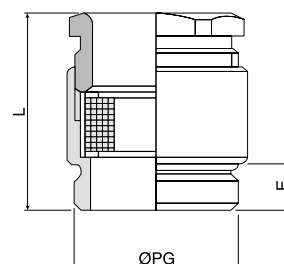
Temperature Range MS
-25 to 100° C (-13 to 212° F)

Dimensions		
Thread Size	E mm	L mm
PG7	5	21
PG9	6	23
PG11	6	23
PG13.5	6.5	26
PG16	6.5	27
PG21	7	30
PG29	8	33
PG36	9	40
PG42	10	44
PG48	10	46

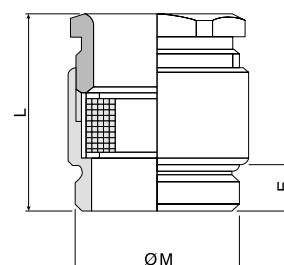
Dimensions		
Thread Size	E mm	L mm
M 12x1.5	7	24
M 16x1.5	7	25
M 20x1.5	7	26
M 20x1.5	7	28
M 25x1.5	8	30
M 32x1.5	8.5	34
M 40x1.5	8.5	35
M 50x1.5	9.5	41
M 63x1.5	10.5	40

according to DIN 46320

Outer thread	Clamping range mm	Cat. No.	Std. Pk.
PG			
PG 7	5 - 7	4000005	100
PG 9	6 - 8	4000102	50
PG 11	8 - 10	4000200	50
PG 13.5	10 - 12	4000307	50
PG 16	12 - 14	4000404	25
PG 21	15 - 17	4000501	25
PG 29	24 - 26	4000552	10
PG 36	31 - 33	4000609	10
PG 42	39 - 41	4000650	5
PG 48	44 - 46	4000706	5



Outer thread	Clamping range mm	Cat. No.	Std. Pk.
Metric			
M 12 x 1.5	5 - 7	4104312	50
M 16 x 1.5	6 - 8	4104316	50
M 20 x 1.5	8 - 10	4104320	50
M 20 x 1.5	10 - 12	4104321	25
M 25 x 1.5	12 - 14	4104325	25
M 32 x 1.5	15 - 17	4104332	25
M 40 x 1.5	24 - 26	4104340	10
M 50 x 1.5	32 - 34	4104350	10
M 63 x 1.5	39 - 41	4104363	5



Cable Gland, with round intermediate part, Nickel-Plated Brass



Material:
Nickel-plated brass
Seal:
Neoprene

Characteristic feature:
Punchable sealing
PG/Metric thread

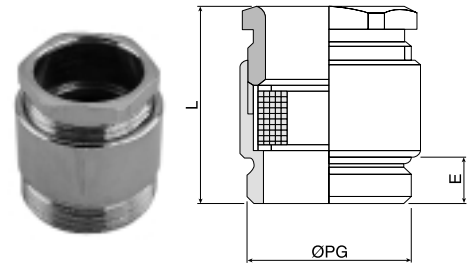


Temperature Range MS -25 to 100° C (-13 to 212° F)
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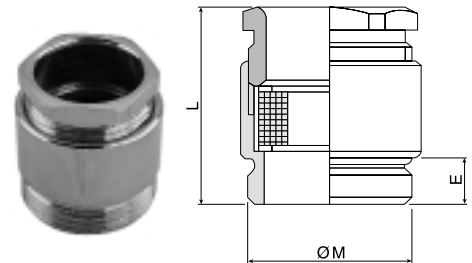
Dimensions			Dimensions		
Thread Size	E mm	L mm	Thread Size	E mm	L mm
PG9	6	23	M 16x1.5	7	25
PG11	6	23	M 20x1.5	7	26
PG13.5	6.5	26	M 20x1.5	7	28
PG16	6.5	27	M 25x1.5	8	30
PG21	7	30	M 32x1.5	8.5	34
PG29	8	33	M 40x1.5	8.5	35
PG36	9	40	M 50x1.5	9.5	41
PG42	10	44	M 63x1.5	10.5	40
PG48	10	46			

according to DIN 46320

Outer thread	Clamping Range mm	Graded dimensions for sealing ring mm	Cat. No.	Std. Pk.
PG				
PG 9	2-9	5 - 7.5 - 10	4006100	50
PG 11	2-9	5 - 7.5 - 10	4006208	50
PG 13.5	4.5-12	7.5 - 10 - 12.5	4006305	50
PG 16	5.5-14.5	7.5 - 10 - 12 - 15	4006402	25
PG 21	8-19	10 - 13 - 16 - 19	4006500	25
PG 29	12-27	18 - 21 - 24 - 27	4006550	10
PG 36	22-23	24 - 27 - 30 - 33	4006607	10
PG 42	25-40	30 - 33 - 36 - 39	4006658	5
PG 48	35-44	36 - 39 - 42 - 45	4006704	5



Outer thread	Clamping Range mm	Graded dimensions for sealing ring mm	Cat. No.	Std. Pk.
Metric				
M 16 x 1.5	2-9	5 - 7.5 - 10	4104516	50
M 20 x 1.5	4-11	5 - 7.5 - 10 - 12	4104520	50
M 20 x 1.5	4.5-12	7.5 - 10 - 12.5	4104521	25
M 25 x 1.5	5.5-14.5	7.5 - 10 - 12 - 15	4104525	25
M 32 x 1.5	8-19	10 - 13 - 16 - 19	4104532	25
M 40 x 1.5	12-27	18 - 21 - 24 - 27	4104540	10
M 50 x 1.5	22-23	24 - 27 - 30 - 33	4104550	5
M 63 x 1.5	25-40	30 - 33 - 36 - 39	4104563	5



Cable Gland, with hexagon intermediate part, Nickel-Plated Brass

Material:
Nickel-plated brass

Characteristic feature:
Simple sealing ring
PG/Metric thread
Extended thread available

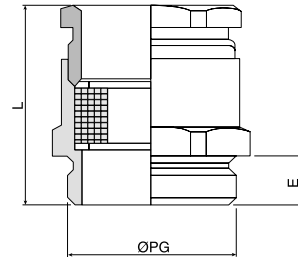


Temperature Range MS
-25 to 100° C (-13 to 212° F)

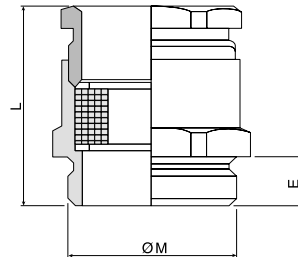
Dimensions			Dimensions		
Thread Size	E mm	L mm	Thread Size	E mm	L mm
PG7	5	21	M 12x1.5	7	23
PG9	6	23	M 16x1.5	7	25
PG11	6	23	M 20x1.5	7	25
PG13.5	6.5	26	M 20x1.5	7	28
PG16	6.5	27	M 25x1.5	8	29
PG21	7	30	M 32x1.5	8.5	32
PG29	8	33	M 40x1.5	8.5	34
PG36	9	40	M 50x1.5	9.5	40
PG42	10	44	M 63x1.5	10.5	45
PG48	10	46			

according to DIN 46320

Outer thread	Clamping range mm	Cat. No.	Std. Pk.
PG			
PG 7	5-7	4001001	100
PG 9	6-8	4001109	50
PG 11	8-10	4001206	50
PG 13.5	10-12	4001303	50
PG 16	12-14	4001400	25
PG 21	15-17	4001508	25
PG 29	24-26	4001559	10
PG 36	31-33	4001605	10
PG 42	39-41	4001656	5
PG 48	44-46	4001702	5



Outer thread	Clamping range mm	Cat. No.	Std. Pk.
Metric			
M 12 x 1.5	5-7	4103312	50
M 16 x 1.5	6-8	4103316	50
M 20 x 1.5	8-10	4103320	50
M 20 x 1.5	10-12	4103321	25
M 25 x 1.5	12-14	4103325	25
M 32 x 1.5	15-17	4103332	25
M 40 x 1.5	24-26	4103340	10
M 50 x 1.5	31-33	4103350	10
M 63 x 1.5	39-41	4103363	5



Cable Gland, with hexagon intermediate part, Nickel-Plated Brass

Material:
Nickel-plated brass

Characteristic feature:
Punchable sealing ring
PG/Metric thread

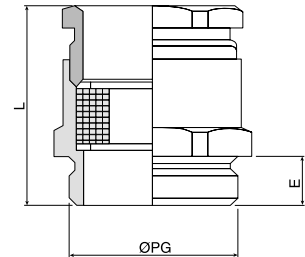


Temperature Range MS -25 to 100° C (-13 to 212° F)
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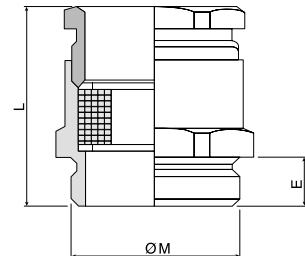
Dimensions			Dimensions		
Thread Size	E mm	L mm	Thread Size	E mm	L mm
PG9	6	23	M 16x1.5	7	25
PG11	6	23	M 20x1.5	7	25
PG13.5	6.5	26	M 20x1.5	7	28
PG16	6.5	27	M 25x1.5	8	29
PG21	7	30	M 32x1.5	8.5	32
PG29	8	33	M 40x1.5	8.5	34
PG36	9	40	M 50x1.5	9.5	40
PG42	10	44	M 63x1.5	10.5	45
PG48	10	46			

according to standard DIN 46320

Outer thread	Clamping range mm	graded dimensions for sealing ring mm	Cat. No.	Std. Pk.
PG				
PG 9	4 - 9.5	5 - 7.5 - 10	4009100	50
PG 11	4 - 9.5	5 - 7.5 - 10	4009207	50
PG 13.5	6 - 13	7.5 - 10 - 12.5	4009304	50
PG 16	6 - 15	7.5 - 10 - 12 - 15	4009401	25
PG 21	9 - 20	10 - 13 - 16 - 19	4009509	25
PG 29	15 - 27	18 - 21 - 24 - 27	4009550	10
PG 36	21 - 33	24 - 27 - 30 - 33	4009606	10
PG 42	27 - 40	30 - 33 - 36 - 39	4009658	5
PG 48	35 - 44	36 - 39 - 42 - 45	4009695	5



Outer thread	Clamping range mm	graded dimensions for sealing ring mm	Cat. No.	Std. Pk.
Metric				
M 16 x 1.5	4 - 9.5	5 - 7.5 - 10	4103516	50
M 20 x 1.5	4 - 11.5	5 - 7.5 - 10 - 12	4103520	50
M 20 x 1.5	6 - 13	7.5 - 10 - 12.5	4103521	25
M 25 x 1.5	6 - 15	7.5 - 10 - 12 - 15	4103525	25
M 32 x 1.5	9 - 20	10 - 13 - 16 - 19	4103532	25
M 40 x 1.5	15 - 27	18 - 21 - 24 - 27	4103540	10
M 50 x 1.5	21 - 33	24 - 27 - 30 - 33	4103550	5
M 63 x 1.5	27 - 40	30 - 33 - 36 - 39	4103563	5



Lock Nuts, Polyamide

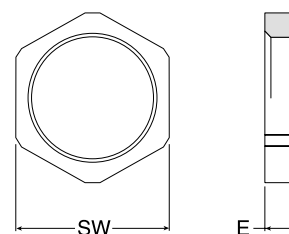
Material:

Polyamide 6
25 % Glass fiber Reinforced

Characteristic feature:

PG / metric and NPT thread

Temperature Range PA
-30 to 120° C (-22 to 248° F)



Thread	Thickness (E) mm	SW mm	Cat. No. Light grey	Cat. No. Black	Std. Pk.
PG (DIN 46 320)					
PG 7	5	19	7211881	7211851	50
PG 9	5	22	7211882	7211852	50
PG 11	5	24	7211883	7211853	50
PG 13.5	6	27	7211884	7211854	50
PG 16	6	30	7211885	7211855	50
PG 21	6.5	36	7211886	7211856	20
PG 29	7.5	46	7211887	7211857	20
PG 36	8	60	7211888	7211858	10
PG 42	9	65	7211889	7211859	5
PG 48	9.5	70	7211890	7211860	5
Metric					
M 12 x 1.5	5	19	7211979	7211974	50
M 16 x 1.5	5	22	7211980	7211975	50
M 20 x 1.5	5	24	7211981	7211976	50
M 25 x 1.5	6	30	7211982	7211977	50
M 32 x 1.5	7.5	38	7211983	7211978	50
M 40 x 1.5	8	50	7211984	7211990	20
M 50 x 1.5	9	60	7211985	7211991	10
M 63 x 1.5	10	75	7211986	7211992	5
NPT					
NPT 3/8"	5	22	7211485	7211495	50
NPT 1/2"	6	27	7211486	7211496	20
NPT 3/4"	7	36	7211487	7211497	20
NPT 1"	7	41	7211488	7211498	20

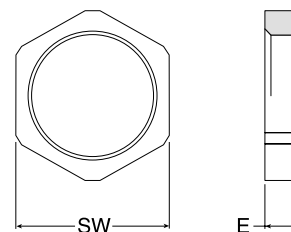
Material:
Polystyrene

Characteristic feature:
PG and Metric thread

Temperature Range PS
-20 to 70° C (-4 to 158° F)



Thread	Thickness (E) mm	SW mm	Cat. No. Light grey	Cat. No. Black	Std. Pk.
PG (DIN 46 320)					
PG 7	5	19	7211107	7211060	50
PG 9	5	22	7211109	7211061	50
PG 11	5	24	7211111	7211062	50
PG 13	6	27	7211113	7211063	50
PG 16	6	30	7211116	7211064	50
PG 21	6.5	36	7211121	7211065	20
PG 29	7.5	46	7211129	7211066	20
PG 36	8	60	7211130	7211067	10
PG 42	9	65	7211131	7211068	5
PG 48	9.5	70	7211132	7211069	5
Metric					
M 12 x 1.5	5	19	7212212	7212112	50
M 16 x 1.5	5	22	7212216	7212116	50
M 20 x 1.5	5	24	7212220	7212120	50
M 25 x 1.5	6	30	7212225	7212125	20
M 32 x 1.5	7.5	38	7212232	7212132	20
M 40 x 1.5	8	50	7212240	7212140	20
M 50 x 1.5	9	60	7212250	7212150	10
M 63 x 1.5	10	75	7212263	7212163	5

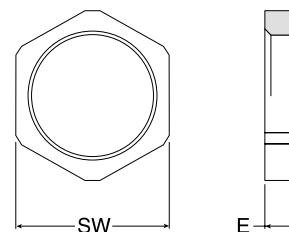


Lock Nuts, Nickel-Plated Brass

Material:
Nickel-plated brass

Characteristic feature:
PG and Metric thread

Temperature Range MS
-40 to 300° C (-40 to 572° F)



Thread	Thickness (E) mm	SW mm	Cat. No.	Std. Pk.
PG (DIN 46 320)				
PG 7	2.9	15	6000070	100
PG 9	2.9	18	6000096	100
PG 11	3.1	21	6000118	100
PG 13.5	3.1	23	6000134	100
PG 16	3.1	26	6000169	100
PG 21	3.6	32	6000215	100
PG 29	4.1	41	6000290	100
PG 36	5.1	51	6000363	50
PG 42	5.1	60	6000428	25
PG 48	5.6	64	6000487	25
Metric				
M 12 x 1.5	3	15	6004121	50
M 16 x 1.5	3	19	6004164	50
M 20 x 1.5	3.5	24	6004202	50
M 25 x 1.5	3.5	30	6004253	25
M 32 x 1.5	4.5	36	6004326	20
M 40 x 1.5	5	46	6004407	10
M 50 x 1.5	5.5	55	6004504	10
M 63 x 1.5	6	70	6004636	5

Material:
Nickel-plated brass

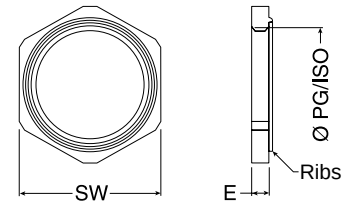
Characteristic feature:
PG and Metric thread

Applications:
EMC applications

Temperature Range MS
-40 to 300° C (-40 to 572° F)



Thread	Thickness (E) mm	SW mm	Cat. No.	Std. Pk.
PG				
PG 7	2.9	15	6011007	50
PG 9	2.9	18	6011009	50
PG 11	3.1	21	6011011	50
PG 13.5	3.1	23	6011013	50
PG 16	3.1	26	6011016	50
PG 21	3.6	32	6011021	20
PG 29	4.1	41	6011029	20
PG 36	5.1	51	6011036	10
PG 42	5.1	60	6011042	10
PG 48	5.6	64	6011048	10
Metric				
M 12 x 1.5	3	15	6011112	50
M 16 x 1.5	3	20	6011116	50
M 20 x 1.5	3.5	24	6011120	50
M 25 x 1.5	3.5	30	6011125	25
M 32 x 1.5	4.5	35	6011132	20
M 40 x 1.5	4.5	45	6011140	10
M 50 x 1.5	5.5	55	6011150	10
M 63 x 1.5	6	70	6011163	10



Lock Nuts, Stainless Steel

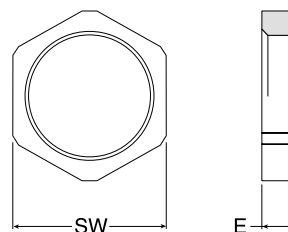
Material:
Stainless Steel INOX 316 L

Characteristic feature:
PG and Metric thread

Temperature Range EST
-20 to 70° C (-4 to 158° F)



Thread	Thickness (E) mm	SW mm	Cat. No.	Std. Pk.
PG				
PG 7	2.9	15	6008207	50
PG 9	2.9	19	6008209	50
PG 11	3.1	21	6008211	50
PG 13.5	3.1	23	6008213	50
PG 16	3.1	26	6008216	25
PG 21	3.6	32	6008221	20
PG 29	4.1	42	6008229	15
PG 36	5.1	57	6008236	10
PG 42	5.1	60	6008242	10
PG 48	5.6	65	6008248	10
Metric				
M 12 x 1.5	3	15	6010112	50
M 16 x 1.5	3	20	6010116	50
M 20 x 1.5	3.5	24	6010120	50
M 25 x 1.5	3.5	30	6010125	25
M 32 x 1.5	4.5	35	6010132	20
M 40 x 1.5	4.5	45	6010140	1
M 50 x 1.5	5.5	55	6010150	1
M 63 x 1.5	6	70	6010163	1

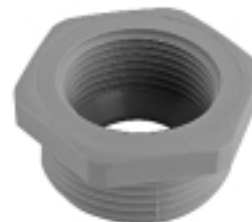


Material:
Polyamide
Glass fiber reinforced

Characteristic feature:
PG/
Metric Thread

Temperature Range PA
-40 to 100° C (-40 to 212° F)

External thread	Internal thread	SW mm	Thread length mm	Complete Length mm	Cat. No. Light Grey	Std. Pk.
Type B						
PG	PG					
PG 11	PG 7	22	8	14	7005302	100
PG 13.5	PG 7	24	9	15	7005304	100
PG 13.5	PG 9	24	9	15	7005305	100
PG 16	PG 9	27	10	16	7005307	100
PG 16	PG 11	27	10	16	7005308	100
PG 21	PG 11	32	10.5	16	7005310	100
PG 21	PG 13.5	32	10.5	16	7005311	100
PG 21	PG 16	32	10.5	16	7005312	100
PG 29	PG 13.5	39	12	17	7005313	50
PG 29	PG 16	39	12	17	7005314	50
PG 29	PG 21	40	12	17	7005315	50
PG 36	PG 16	50	13	19	7005316	50
PG 36	PG 21	50	13	19	7005317	50
PG 36	PG 29	50	13	24	7005318	50
PG 42	PG 21	55	16	24	7005319	25
PG 42	PG 29	55	16	24	7005320	25
PG 42	PG 36	55	17	24	7005321	25
PG 48	PG 29	60	17	24	7005322	25
PG 48	PG 36	60	17	20	7005323	25
PG 48	PG 42	60	17	23	7005324	25
Type A						
PG 9	PG 7	19	8	20.5	7005301	100
PG 11	PG 9	22	8	22.5	7005303	100
PG 13	PG 11	24	9	24	7005306	100
PG 16	PG 13	27	10	27	7005309	100



Type B



Type A

External thread	Internal thread	SW mm	Thread length mm	Complete Length mm	Cat. No. Light Grey	Std. Pk.
Metric	Metric					
M 16 x 1.5	M 12 x 1.5	24	8	12	7008018	100
M 20 x 1.5	M 12 x 1.5	24	8	12	7008020	100
M 20 x 1.5	M 16 x 1.5	24	8	12	7008021	100
M 25 x 1.5	M 12 x 1.5	29	8	14	7008030	100
M 25 x 1.5	M 16 x 1.5	29	8	14	7008031	100
M 25 x 1.5	M 20 x 1.5	29	8	14	7008032	100
M 32 x 1.5	M 12 x 1.5	36	10	16	7008040	50
M 32 x 1.5	M 16 x 1.5	36	10	16	7008041	50
M 32 x 1.5	M 20 x 1.5	36	10	16	7008042	50
M 32 x 1.5	M 25 x 1.5	36	10	16	7008043	50
M 40 x 1.5	M 16 x 1.5	46	10	16	7008044	50
M 40 x 1.5	M 20 x 1.5	46	10	16	7008045	50
M 40 x 1.5	M 25 x 1.5	46	10	16	7008046	50
M 40 x 1.5	M 32 x 1.5	46	10	16	7008047	50
M 50 x 1.5	M 20 x 1.5	55	12	18	7008050	25
M 50 x 1.5	M 25 x 1.5	55	12	18	7008051	25
M 50 x 1.5	M 32 x 1.5	55	12	18	7008052	25
M 50 x 1.5	M 40 x 1.5	55	12	18	7008053	25
M 63 x 1.5	M 25 x 1.5	68	12	18	7008060	25
M 63 x 1.5	M 32 x 1.5	68	12	18	7008061	25
M 63 x 1.5	M 40 x 1.5	68	12	18	7008062	25
M 63 x 1.5	M 50 x 1.5	68	12	18	7008063	25



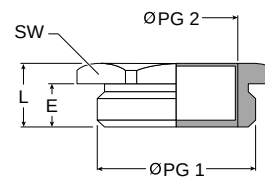
Reducer, Nickel-Plated Brass

Material:
Nickel-plated brass

Characteristic feature:
PG thread
Metric thread
Hexagon

Temperature Range MS
-40 to 300° C (-40 to 572° F)

External thread	Internal thread	SW mm	Thread length mm (E)	Complete length mm (L)	Cat. No.	Std. Pk.
PG 1	PG 2					
PG 9	PG 7	17	5	8	6102018	100
PG 11	PG 9	19	6	9	6102034	100
PG 11	PG 7	19	6	9	6102030	100
PG 13.5	PG 11	21	6	9	6102077	100
PG 13.5	PG 9	21	6	9	6102042	100
PG 13.5	PG 7	21	6	8.5	6102026	100
PG 16	PG 13.5	23	6	9	6102115	100
PG 16	PG 11	23	6	9	6102085	100
PG 16	PG 9	23	6	9	6102050	100
PG 21	PG 16	29	7	10	6102158	50
PG 21	PG 13.5	29	7	10	6102123	50
PG 21	PG 11	29	7	10	6102093	20
PG 21	PG 9	29	7	10	6102069	50
PG 29	PG 21	39	8	11	6102190	25
PG 29	PG 16	39	8	11	6102166	25
PG 29	PG 13.5	39	8	11	6102131	25
PG 29	PG 11	39	8	11	6102107	25
PG 36	PG 29	50	8	11	6102220	25
PG 36	PG 21	50	8	11	6102204	25
PG 36	PG 13.5	50	8	11	6102140	25
PG 42	PG 36	64	10	14	6102241	25
PG 42	PG 29	64	10	14	6102239	25
PG 48	PG 42	64	10	14	6102258	25
PG 48	PG 36	64	10	14	6102255	25
PG 48	PG 29	64	10	14	6102247	25
PG 48	PG 21	64	10	14	6102212	25
PG 48	PG 16	64	10	14	6102182	25

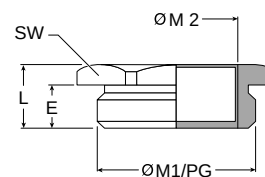


Material:
Nickel-plated brass

Characteristic feature:
Metric/PG thread
Metric thread
Hexagon

Temperature Range PA
-40 to 300° C (-40 to 572° F)

External thread	Internal thread	SW mm	Thread length mm (E)	Complete length mm (L)	Cat. No.	Std. Pk.
Metric 1	Metric 2					
M 16 x 1.5	M 12 x 1.5	20	7	10	6102400	50
M 20 x 1.5	M 12 x 1.5	24	7	10	6102404	50
M 20 x 1.5	M 16 x 1.5	24	7	10	6102405	50
M 25 x 1.5	M 20 x 1.5	30	8	11.5	6102410	20
M 32 x 1.5	M 25 x 1.5	36	8.5	12.5	6102415	20
M 40 x 1.5	M 32 x 1.5	42	8.5	12.5	6102420	10
M 50 x 1.5	M 40 x 1.5	55	9.5	14.5	6102425	5
M 63 x 1.5	M 50 x 1.5	70	10.5	17.5	6102430	1
M 75 x 1.5	M 63 x 1.5	80	11.5	19.5	6102435	1
PG	Metric 2					
PG 9	M 6 x 1	18	6.5	9.5	6104106	50
PG 9	M 8 x 1.25	18	6.5	9.5	6104108	50
PG 9	M 10 x 1.5	18	6.5	9.5	6104110	50
PG 11	M 6 x 1	20	6.5	9.5	6104206	50
PG 11	M 8 x 1.25	20	6.5	9.5	6104208	50
PG 11	M 10 x 1.5	20	6.5	9.5	6104210	50
PG 11	M 12 x 1.5	20	5	8	6104212	50
PG 16	M 16 x 1.5	24	7	10	6104416	50
PG 21	M 25 x 1.5	30	7.5	11	6104525	50
PG 29	M 32 x 1.5	38	8	12	6104632	50



Material:
Nickel-plated brass

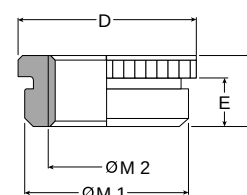
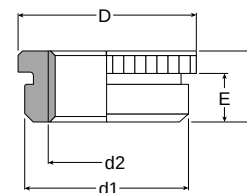
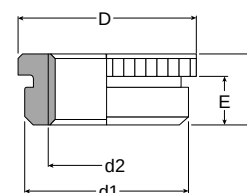
Characteristic feature:
PG/Metric external thread
PG/Metric internal thread
Round ribbed

Temperature Range MS
-40 to 300° C (-40 to 572° F)

External thread	Internal thread	Diameter mm	Thread length mm (E)	Complete length mm (L)	Cat. No.	Std. Pk.
PG	PG					
PG 9	PG 7	17	6	8.5	6100015	50
PG 11	PG 7	20	6	8.5	6100023	50
PG 11	PG 9	20	6	9	6100031	50
PG 13.5	PG 7	22	6.5	9	6100040	50
PG 13.5	PG 9	22	6.5	9	6100058	50
PG 13.5	PG 11	22	6.5	9	6100066	50
PG 16	PG 7	24	6.5	9.5	6100074	25
PG 16	PG 9	24	6.5	9.5	6100082	25
PG 16	PG 11	24	6.5	9.5	6100090	25
PG 16	PG 13.5	24	6.5	9.5	6100104	25
PG 21	PG 11	30	7	10	6100112	20
PG 21	PG 13.5	30	7	10	6100120	20
PG 21	PG 16	30	7	10	6100139	20
PG 29	PG 16	39	8	11.5	6100147	15
PG 29	PG 21	39	8	11.5	6100155	15
PG 36	PG 21	50	9	12.5	6100163	10
PG 36	PG 29	50	9	12.5	6100171	10
PG 42	PG 29	57	10	14	6100180	10
PG 42	PG 36	57	10	14	6100198	10
PG 48	PG 36	64	10	14	6100201	10
PG 48	PG 42	64	10	14	6100210	10

Metric	PG					
M 16 x 1.5	PG 7	20	6	9	6104716	50
M 20 x 1.5	PG 9	24	6.5	9.5	6104720	50
M 25 x 1.5	PG 11	30	7	10	6104725	50
M 25 x 1.5	PG 13.5	30	7	10	6104726	50
M 25 x 1.5	PG 16	30	7	10	6104727	50
M 32 x 1.5	PG 16	36	8	11.5	6104732	20
M 32 x 1.5	PG 21	36	8	11.5	6104733	20
M 40 x 1.5	PG 21	45	9	12	6104740	10
M 50 x 1.5	PG 29	57	9	12	6104750	5
M 63 x 1.5	PG 36	70	10.5	14	6104763	1
M 63 x 1.5	PG 42	70	10.5	14	6104764	1

Metric	Metric					
M 16 x 1.5	M 12 x 1.5	20	7	10	6104816	50
M 20 x 1.5	M 12 x 1.5	24	7	10	6104819	50
M 20 x 1.5	M 16 x 1.5	24	7	10	6104820	50
M 25 x 1.5	M 16 x 1.5	30	8	11.5	6104824	50
M 25 x 1.5	M 20 x 1.5	30	8	11.5	6104825	50
M 32 x 1.5	M 20 x 1.5	39	8.5	12.5	6104831	20
M 32 x 1.5	M 25 x 1.5	39	8.5	12.5	6104832	20
M 40 x 1.5	M 25 x 1.5	50	8.5	12.5	6104839	20
M 40 x 1.5	M 32 x 1.5	50	8.5	12.5	6104840	20
M 50 x 1.5	M 32 x 1.5	57	9.5	14.5	6104849	10
M 50 x 1.5	M 40 x 1.5	57	9.5	14.5	6104850	10
M 63 x 1.5	M 40 x 1.5	70	10.5	17.5	6104862	5
M 63 x 1.5	M 50 x 1.5	70	10.5	17.5	6104863	5
M 75 x 1.5	M 63 x 1.5	80	11.5	19.5	6104875	1
PG	Metric					
PG 16	M 20 x 1.5	24	7	10	6100416	50
PG 21	M 25 x 1.5	30	8	11.5	6100421	20
PG 29	M 25 x 1.5	39	9	12.5	6100429	20



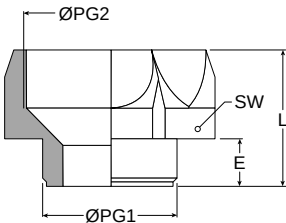
Enlarger, Polycarbonate

Material:
Polycarbonate

Characteristic feature:
PG external thread
PG internal thread

Temperature Range PC
-40 to 135° C (-40 to 275° F)

External thread	Internal thread	SW mm	Thread length mm (E)	Complete length mm (L)	Cat. No.	Std. Pk.
PG 1	PG 2					
PG 7	PG 9	19	6.5	19	7004010	50
PG 9	PG 11	22	7	21.5	7004028	50
PG 11	PG 13.5	24	9	21.5	7004036	50
PG 13.5	PG 16	27	9	23	7004044	50
PG 16	PG 21	32	10	25.5	7004052	25
PG 21	PG 29	41	8.5	28.5	7004060	25
PG 29	PG 36	55	12	38	7004079	1
PG 36	PG 42	60	14	45	7004087	1
PG 42	PG 48	65	16	39	7004095	1



Material:
Polyamide glass fiber reinforced

Characteristic feature:
PG external thread
PG internal thread

Temperature Range PA
-40 to 100° C (-40 to 212° F)

External thread	Internal thread	SW mm	Thread length mm	Complete length mm	Cat. No.	Std. Pk.
PG	PG					
PG 7	PG 9	13	7	20	7004200	100
PG 9	PG 11	22	8	23	7004201	100
PG 11	PG 13.5	24	8	23	7004202	100
PG 13.5	PG 16	27	9	26	7004203	100
PG 16	PG 21	32	9	29	7004204	100
PG 21	PG 29	42	10	32	7004205	50
PG 29	PG 36	53	11	35.5	7004206	25
PG 36	PG 42	60	13	40.5	7004207	10
PG 42	PG 48	65	13	41	7004208	10



Enlarger, Nickel-Plated Brass

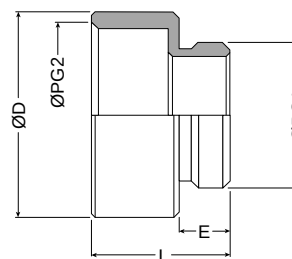
Material:
Nickel-plated brass

Characteristic feature:
PG external thread
PG internal thread
Round

Temperature Range MS
-40 to 300° C (-40 to 572° F)

According to DIN 46 320 and DIN 259

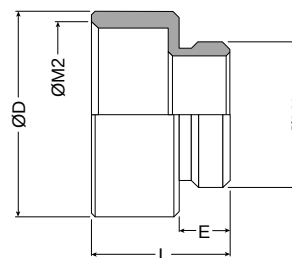
External thread	Internal thread	Diameter mm (D)	Thread length mm (E)	Complete length mm (L)	Cat. No.	Std. Pk.
To DIN 46 320						
PG 1	PG 2					
PG 7	PG 9	17	5	15	6200010	50
PG 9	PG 11	20	6	16.5	6200028	50
PG 9	PG 13.5	22	6	17.5	6200036	50
PG 11	PG 13.5	22	6	17.5	6200044	50
PG 11	PG 16	24	6	18.5	6200052	25
PG 13.5	PG 16	24	6.5	19	6200060	25
PG 13.5	PG 21	30	6.5	21	6200079	20
PG 16	PG 21	30	6.5	21	6200087	20
PG 21	PG 29	39	7	23	6200095	15
PG 29	PG 36	50	8	27.5	6200109	10
PG 36	PG 42	57	9	31	6200117	10
PG 42	PG 48	64	10	33	6200125	10



Material:
Nickel-plated brass

Characteristic feature:
Metric external thread
Metric internal thread
Round

External thread	Internal thread	Diameter mm (D)	Thread length mm (E)	Complete length mm (L)	Cat. No.	Std. Pk.
Metric 1						
Metric 2						
M 12 x 1.5	M 16 x 1.5	18	7	18	6200212	50
M 16 x 1.5	M 20 x 1.5	22	7	18	6200216	50
M 20 x 1.5	M 25 x 1.5	28	7	19	6200220	50
M 25 x 1.5	M 32 x 1.5	34	8	20.5	6200225	20
M 32 x 1.5	M 40 x 1.5	43	8.5	21	6200232	20
M 40 x 1.5	M 50 x 1.5	54	8.5	22	6200240	10
M 50 x 1.5	M 63 x 1.5	65	9.5	24	6200250	5
M 63 x 1.5	M 75 x 1.5	80	10.5	26	6200263	1

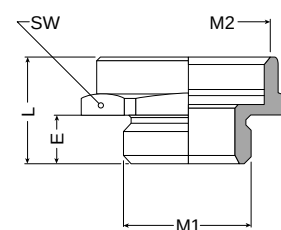


Material:
Nickel-plated brass

Characteristic feature:
Metric external thread
Metric internal thread
Hexagon

Temperature Range MS
-40 to 300° C (-40 to 572° F)

External thread	Internal thread	SW mm	Thread length mm (E)	Complete length mm (L)	Cat. No.	Std. Pk.
Metric 1	Metric 2					
M12 x 1.5	M16 x 1.5	18	7	18	6200312	50
M16 x 1.5	M20 x 1.5	22	7	18	6200316	50
M20 x 1.5	M25 x 1.5	28	7	19	6200320	50
M25 x 1.5	M32 x 1.5	36	8	20.5	6200325	20
M32 x 1.5	M40 x 1.5	42	8.5	21	6200332	20
M40 x 1.5	M50 x 1.5	52	8.5	22	6200340	10
M50 x 1.5	M63 x 1.5	65	9.5	24	6200350	5
M63 x 1.5	M75 x 1.5	80	10.5	26	6200363	1



Adapter, PG to Metric Thread, Nickel-Plated Brass

Material:
Nickel-plated brass

Characteristic feature:
PG external thread
Metric internal thread
Hexagon

Temperature Range MS
-40 to 300° C (-40 to 572° F)

External thread	Internal thread	SW mm	Thread length mm	Complete length mm	Cat. No.	Std. Pk.
Form A						
PG	Metric					
PG 7	M 12	17	6.5	16.5	6604807	50
PG 7	M 16	19	6.5	16.5	6604808	50
PG 9	M 16	19	6.5	16.5	6604810	50
PG 9	M 20	22	6.5	18.5	6604811	50
PG 11	M 20	22	7	17	6604813	50
PG 11	M 25	27	7	18	6604814	50
PG 13.5	M 20	24	7	17	6604816	50
PG 13.5	M 25	27	7	18	6604817	50
PG 16	M 20	27	7	16	6604818	50
PG 16	M 25	27	7	18	6604819	50
PG 16	M 32	36	7	18.5	6604820	50
PG 21	M 32	36	8	19.5	6604822	20
PG 21	M 40	42	8	19.5	6604823	20
PG 29	M 40	42	8.5	20	6604831	20
PG 29	M 50	55	8.5	21	6604832	20
PG 36	M 50	55	8.5	21	6604837	10
PG 42	M 63	65	10	23.5	6604843	5
PG 48	M 63	65	10	23.5	6604849	5
PG 48	M 75	80	10	24.5	6604850	5
Form B						
PG 9	M 12	19	6.5	16.5	6604809	50
PG 11	M 16	22	7	11	6604812	50
PG 13.5	M 16	24	7	11	6604815	50
PG 21	M 25	32	8	13	6604821	20
PG 29	M 25	40	8.5	14	6604829	20
PG 29	M 32	40	8.5	14	6604830	20
PG 36	M 40	55	8.5	15	6604836	10
PG 42	M 50	58	10	16.5	6604842	5
PG 48	M 50	65	10	17	6604848	5



Form A



Form B

Material:
Nickel-plated brass

Characteristic feature:
Metric external thread
PG internal thread
Hexagon

Temperature Range MS
-40 to 300° C (-40 to 572° F)

External thread	Internal thread	SW mm	Thread length mm	Complete length mm	Cat. No.	Std. Pk.
Form A						
Metric	PG					
M 12	PG 7	14	7	17	6604712	100
M 16	PG 9	17	7	17.5	6604716	50
M 16	PG 11	20	7	18	6604715	50
M 16	PG 13	22	7	19.5	6604709	50
M 16	PG 16	24	7	20.5	6604717	50
M 20	PG 11	22	7	18	6604720	50
M 20	PG 13	22	7	19.5	6604721	50
M 20	PG 16	24	7	20.5	6604722	50
M 20	PG 21	32	7	22	6604708	50
M 25	PG 16	26	8	21.5	6604726	50
M 25	PG 21	32	8	23.5	6604725	50
M 25	PG 29	40	8	25	6604727	20
M 32	PG 21	34	8.5	23.5	6604729	20
M 32	PG 29	40	8.5	25.5	6604732	10
M 40	PG 29	42	8.5	25	6604734	10
M 40	PG 36	50	8.5	28.5	6604740	10
M 50	PG 36	55	9.5	29	6604742	10
M 50	PG 42	58	9.5	32.5	6604750	5
M 63	PG 42	70	10.5	32.5	6604752	1
M 63	PG 48	70	10.5	33.5	6604763	1
M 75	PG 48	80	11.5	34.5	6604764	1
Form B						
M 16	PG 7	17	7	10.5	6604713	100
M 20	PG 9	22	7	11	6604719	50
M 25	PG 9	26	8	12	6604707	50
M 25	PG 11	26	8	12	6604723	50
M 25	PG 13	26	8	12	6604724	50
M 32	PG 13	32	8.5	12.5	6604706	20
M 32	PG 16	34	8.5	12.5	6604728	20
M 40	PG 16	40	8.5	13.5	6604705	10
M 40	PG 21	42	8.5	13.5	6604733	10
M 50	PG 21	50	9.5	15.5	6604704	10
M 50	PG 29	55	9.5	15.5	6604741	10
M 63	PG 29	64	10.5	17.5	6604703	5
M 63	PG 36	70	10.5	17.5	6604751	5



Form A



Form B

Adapter, PG to NPT Thread, Nickel-Plated Brass

Material:
Nickel-Plated Brass

Characteristic feature:
PG external thread
NPT internal thread
Hexagon

Temperature Range MS
-40 to 300° C (-40 to 572° F)

External thread	Internal thread	SW mm	Thread length mm	Complete length mm	Cat. No.	Std. Pk.
Form A						
PG	NPT					
PG 29	NPT 1"	40	8	18	6400409	20
PG 36	NPT 1 1/4"	50	9	18.5	6400411	10
PG 42	NPT 1 1/2"	60	10	19.5	6400413	5
PG 48	NPT 1 1/2"	64	10	19.5	6400414	5
Form B						
PG 7	NPT 3/8"	19	5	19.5	6400400	50
PG 9	NPT 1/2"	24	6	24	6400401	50
PG 11	NPT 1/2"	24	6	24	6400402	50
PG 13.5	NPT 1/2"	24	6.5	24.5	6400403	50
PG 13.5	NPT 3/4"	30	6.5	25	6400404	50
PG 16	NPT 1/2"	24	6.5	24.5	6400405	50
PG 16	NPT 3/4"	30	6.5	25	6400406	50
PG 21	NPT 3/4"	30	7	23	6400407	20
PG 21	NPT 1"	36	7	30	6400408	20
PG 29	NPT 1 1/4"	50	8	32	6400410	20
PG 36	NPT 1 1/2"	55	9	34	6400412	10
PG 48	NPT 2"	64	10	35	6400415	5



Form A



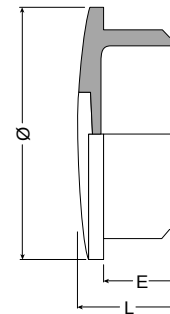
Form B

Material:
Polystyrene

Characteristic feature:
PG / Metric
Round, with slot

Temperature Range PS
-20 to 70° C (-4 to 158° F)

External thread	Diameter mm	Thread length mm (E)	Complete length mm (L)	Cat. No. Light Grey	Std. Pk.
PG					
PG 7	15	6	8	7215070	100
PG 9	19	6	8	7215096	100
PG 11	22	6	9	7215118	100
PG 13.5	25	6	10	7215134	100
PG 16	27	6	10	7215169	100
PG 21	33	8	12	7215215	100
PG 29	44	8	12	7215290	100
PG 36	55	10	15	7215363	50
PG 42	62	10	15	7215428	50
PG 48	69	12	17	7215487	50
Metric					
M 12 x 1.5	16	6	8	7217012	50
M 16 x 1.5	20	6	8	7217016	50
M 20 x 1.5	26	8	10.5	7217020	50
M 25 x 1.5	32	8	11	7217025	20
M 32 x 1.5	40	10	13.5	7217032	20
M 40 x 1.5	48	10	14	7217040	20
M 50 x 1.5	55	12	17	7217050	10
M 63 x 1.5	70	12	18	7217063	5



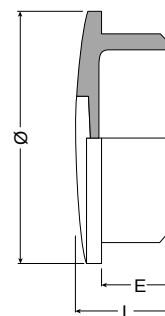
Plug, Polyamide, Round

Material:
Polyamide
25 % glass fiber reinforced

Characteristic feature:
PG/Metric
Round, with slot

Temperature Range PA
-30 to 120° C (-22 to 248° F)

External thread	Diameter mm	Thread length mm (E)	Complete length mm (L)	Cat. No. Light Grey	Std. Pk.
PG					
PG 7	15	6	8	7215517	100
PG 9	19	6	8	7215525	100
PG 11	22	6	9	7215533	100
PG 13.5	25	6	10	7215541	100
PG 16	27	6	10	7215550	100
PG 21	33	8	12	7215568	100
PG 29	44	8	12	7215576	100
PG 36	55	10	15	7215584	50
PG 42	62	10	15	7215592	50
PG 48	69	12	17	7215606	50
Metric					
M 12 x 1.5	16	6	8	7217312	50
M 16 x 1.5	20	6	8	7217316	50
M 20 x 1.5	26	8	10.5	7217320	50
M 25 x 1.5	32	8	11	7217325	20
M 32 x 1.5	40	10	13.5	7217332	20
M 40 x 1.5	48	10	14	7217340	20
M 50 x 1.5	55	12	17	7217350	10
M 63 x 1.5	70	12	18	7217363	5

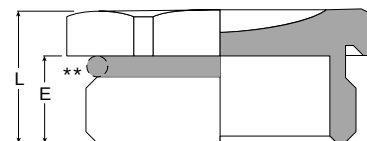
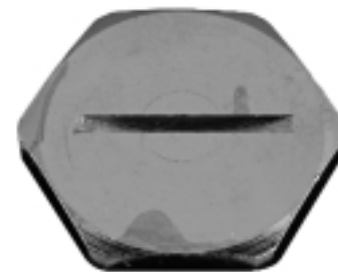


Material:
Nickel-plated brass

Characteristic feature:
PG
Hexagon, with slot

Temperature Range MS
-25 to 120° C (-13 to 248° F)

External thread	SW mm	Thread length mm (E)	Complete length mm (L)	Cat. No.	Std. Pk.
PG					
PG 7	14	5	8	6702507	50
PG 9	17	6	9	6702509	50
PG 11	19	6	9	6702511	50
PG 13.5	21	6.5	9.5	6702513	50
PG 16	23	6.5	9.5	6702516	25
PG 21	29	7	11	6702521	20
PG 29	39	8	12	6702529	15
PG 36*	50	9	13.5	6702536	10
PG 42*	58	10	15	6702542	10
PG 48*	64	10	16	6702548	10



* PG 36-48 without slot.

** O-Ring available upon request; see page 53 for ordering information.

Plug, Nickel-Plated Brass, Round

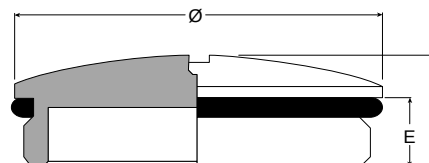
Material:
Nickel-plated brass
O-ring, Nitril

Characteristic feature:
PG/Metric thread
Round, with slot

Temperature Range MS
-25 to 120° C (-13 to 248° F)

PROTECTION
IP68
RATING

External thread	Diameter mm	Thread length mm (E)	Complete length mm (L)	Cat. No.	Std. Pk.
PG					
PG 7	14	5	8	6700507	50
PG 9	17	6	9	6700509	50
PG 11	20	6	9	6700511	50
PG 13.5	22	6.5	9.5	6700513	50
PG 16	24	6.5	9.5	6700516	25
PG 21	30	7	11	6700521	20
PG 29	39	8	12	6700529	15
PG 36	50	9	15	6700536	10
PG 42	57	10	16	6700542	10
PG 48	64	10	16	6700548	10
Metric					
M 12 x 1.5	14	7.2	8	6700612	100
M 16 x 1.5	18	7.2	9	6700616	100
M 20 x 1.5	22	7.2	9.5	6700620	100
M 25 x 1.5	27	8.2	11	6700625	100
M 32 x 1.5	34	8.7	12	6700632	50
M 40 x 1.5	44	8.7	14	6700640	50
M 50 x 1.5	54	9.7	15.5	6700650	25
M 63 x 1.5	67	10.7	16	6700663	25

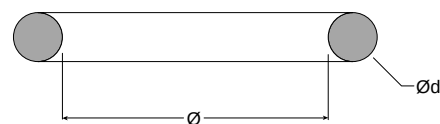


Material:
Perbunan

Characteristic feature:
PG and metric thread

Temperature Range
-25 to 120° C (-13 to 248° F)

Connecting thread		Internal Diameter mm	Thickness mm (d)	Cat. No.	Std. Pk.
PG	metric				
PG 7	M 12	11	1.5	8112070	1000
PG 9	M 16	13	1.5	8112096	1000
PG 11		15	1.5	8112118	1000
PG 13.5	M 20	17	1.5	8112134	1000
PG 16		19	1.5	8112169	1000
PG 21		20.35	1.78	8112215	1000
	M 25	21.98	1.78	8112250	100
	M 32	28	2	8112320	100
PG 29		34	2	8112290	1000
	M 40	37	2	8112400	100
PG 36		42	2	8112363	1000
	M 50	48	2	8112500	100
PG 42		48	2.5	8112428	1000
PG 48	M 63	55	2.5	8112630	1000
	M 75	67.95	2.62	8112675	100



Flat Packing, Neoprene

Material:
Neoprene, black

Characteristic feature:
PG and metric thread

Temperature Range -25 to 100° C (-13 to 212° F)

Connecting thread	External diameter mm	Internal diameter mm	Thickness mm	Cat. No.	Std. Pk.
PG					
PG 7	17	11.3	1.2	8113301	100
PG 9	20	13.9	1.2	8113302	100
PG 11	23	17.1	1.2	8113303	100
PG 13.5	25	19	1.2	8113304	100
PG 16	27	21	1.2	8113305	100
PG 21	34	26.6	1.5	8113306	50
PG 29	45	35.2	1.5	8113307	50
PG 36	56	45.2	1.5	8113308	50
PG 42	67	52.2	1.5	8113309	50
PG 48	72	57.7	1.5	8113310	50
Metric					
M 12	15	10	1.2	8113490	100
M 16	20	14	1.2	8113491	100
M 20	24	18	1.2	8113492	100
M 25	30	23	1.2	8113493	100
M 32	40	30	1.5	8113494	100
M 40	48	38	1.5	8113495	100
M 50	58	48	1.5	8113496	100
M 63	75	61	1.5	8113497	100
M 75	90	73	1.5	8113498	100



Material:

Polyamide 6

Upper temperature range:

Short-term: 150°C

Characteristic feature:

Parallel corrugated

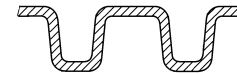
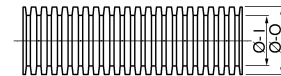
Technical properties:

- Flame retardant according to standard V-DIN 75200
- No halogen
- Durable

Application fields:

Engine compartment, car body and interior, machines, instruments, devices, ship and train building, switch cabinet and movable machine parts.

Temperature Range PA 6 -40 to 120° C (-40 to 248° F)
--



NW	Ø-I mm	Ø-O mm	Bending Radius mm	Cat. No. Non-Slotted Black	Cat. No. Slotted Black	Std. Pk. m
3	2.8	5.1	6	1200073	1205030	200
4.5	5.0	7.1	8	1200068	1205045	100
6	6.0	9.2	16	1200069	1205060	100
7.5	6.7	10.0	13	1200070	1205072	50
8.5	8.4	11.7	15	1200089	1205080	50
10	9.9	13.0	20	1200100	1205102	50
12	12.2	15.7	30	1200127	1205129	50
13	12.7	15.8	35	1200135	1205137	50
14	14.2	18.5	40	1200143	1205145	50
16	15.0	18.9	45	1200160	1205161	50
17	16.6	21.2	45	1200178	1205170	50
19	19.3	24.3	50	1200194	1205196	50
22	21.3	25.4	50	1200224	1205226	50
23	23.2	28.3	55	1200232	1205234	50
26	25.8	31.2	60	1200267	1205269	25
29	29.0	34.5	65	1200291	1205290	25
37	36.0	42.4	90	1200372	1205374	25
50	47.7	54.0	100	1200500	1205501	25

according to standard EN 60423

M 12	9.5	12.0	20	1280412		50
M 16	11.5	16.0	35	1280416		50
M 20	14.6	20.0	45	1280420		50
M 25	18.8	25.0	55	1280425		25
M 32	26.0	32.0	65	1280432		25

Fitting conduit glands:

SEM, on page 55-56

Conduit Gland SEM Straight, quick-mounting system for corrugated tubes Polyflex PA 6

Material:
Polyamide 66

Technical properties:

- Easy and tight mounting
- Special click-in system
- Grasps from the outside

- Corrugated pipe can be rotated within the mounting gland
- No halogen

Application fields:
All fields using corrugated tubes

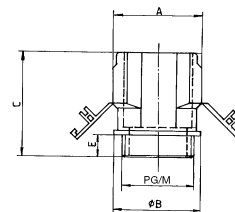
Mounting instructions:
Insert the corrugated tube with a short twist all the way into the end of the SEM conduit gland.

PROTECTION *
IP54 / **IP67**
RATING **



Temperature Range PA 6
-25 to 100° C (-13 to 212° F)

Thread	Fits for NW	E mm	SW mm	A mm	B mm	C mm	Cat. No. Black	Std. Pk.
PG								
PG 7	8.5	10	15	20.2	16	39	3800075	50
PG 7	12	10	19	24	21	40.3	3802070	50
PG 9	10	10	18	21.3	20	39.5	3800091	50
PG 9	12	10	19	24	21	40.3	3802091	50
PG 11	12	10	19	24	20.8	40.5	3800113	50
PG 11	13	10	20	2.8	22	40	3800114	50
PG 11	17	10	26	29.6	29	40.6	3802112	100
PG 13.5	10	7	22	26.7	23.6	40	3802132	50
PG 13.5	14	10	22	26.7	23.6	40	3800130	50
PG 16	17	10	26	29.6	28.9	40.6	3800164	50
PG 21	22	11	30	35	34	46	3800211	25
PG 21	23	11	32	37.6	35	47.7	3800210	25
PG 29	29	12	41	45.2	45	53.8	3800296	20
PG 36	37	12	50	54	56.8	57.4	3800369	10
PG 48	50	12	64	65.3	72.2	57.7	3800482	5
Metric								
M 12 x 1.5	10	10	18	21.9	20	40	3803410	50
M 16 x 1.5	10	15	18	21.8	19.8	45	3803413	50
M 16 x 1.5	13	10	19	24	20.9	40	3803412	50
M 20 x 1.5	17	10	26	29.6	28.9	40	3803418	50
M 25 x 1.5	22	15	30	34.7	33.8	50	3803434	25
M 25 x 1.5	23	10	30	38.2	35	45	3803424	25
M 32 x 1.5	29	12	41	45	44.6	54	3803429	20



according to EN 60 423

M 12 x 1.5	M 12	11	16	20.2	16	39	3803120	50
M 16 x 1.5	M 16	10	19	23.9	20.3	41	3803163	50
M 20 x 1.5	M 20	10	24	28	25.5	41	3803201	25
M 25 x 1.5	M 25	11	30	33.3	32.2	48	3803252	50
M 32 x 1.5	M 32	10	41	45.2	45	54	3803325	20

Notes:

- * Without sealing ring
- ** With sealing ring, see page 52.

Material:

Polyamide 66

Technical properties:

- Easy and tight mounting
- Special click-in system
- Grasps from the outside

- Corrugated pipe can be rotated within the mounting gland
- No halogen

Application fields:

All fields using corrugated tubes

Mounting instructions:

Insert the corrugated tube with a short twist all the way into the end of the SEM conduit gland.

PROTECTION *
IP54
RATING

IP67
**

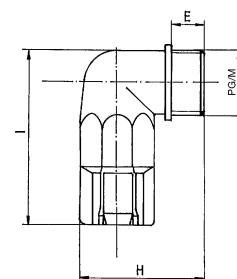


Temperature Range PA 6 -25 to 100° C (-13 to 212° F)
--

Thread	Fits NW	E mm	I mm	H mm	Cat. No. Black	Std. Pk.
PG						
PG 7	8.5	10	46	32	7303076	25
PG 9	10	10	53	35	7303092	25
PG 11	12	10	54.5	35.5	7303114	25
PG 13.5	14	10	58.5	39.5	7303130	25
PG 16	17	11	59	42.5	7303165	25
PG 21	23	11	74	49.5	7303211	25
PG 21	22				7303212	
PG 29	29	12	89	59	7303297	10
PG 36	37	12	107	70	7303360	5
PG 48	50	13	121	85	7303483	5
Metric						
M 16 x 1.5	10	10	55	40	7303717	25
M 16 x 1.5	13	15	56	40.5	7303718	25
M 20 x 1.5	17	15	62	47	7303721	25
M 25 x 1.5	22	15	77	53.5	7303726	25
M 32 x 1.5	29	15	93	62.5	7303733	10

according to EN 60423

M 12 x 1.5	M 12	10	52	33.5	7303712	25
M 16 x 1.5	M 16	10	56	35	7303716	25
M 20 x 1.5	M 20	10	62	40	7303720	25
M 25 x 1.5	M 25	11	77	49	7303725	25
M 32 x 1.5	M 32	15	93	58	7303732	10


Notes:

* Without sealing ring

** With sealing ring, see page 52.

Technical Annex, Chemical resistance of plastic materials

	Concen- tration %	at temp. +°C	Poly- amide	Poly- amide	Poly- amide	Thermo- plastic Polyurethane	Poly- propylene	Poly- ethylene	Poly- ethylene	Poly- styrene	Thermo- plastic elastomere	Nitrile- butadiene- rubber
+ stands for: resistant o stands for: conditionally resistant - stands for: not resistant												
Reagents			PA 6	PA 66	PA 12	PU	PP	HD-PE	LD-PE	PS	TPE	NBR
Acetaldehyde	40	20	o	o	+		+					20°C o
Acetic acid	100	20					+	+	+			o
Acetone	100	20	+	+	+	-	+	o	o			-
Acrylic acid	100	> 30	-	-	-					-		
Allyl alcohol	96	20	o	o	+		+	+	+	20% +		
Alum, hydrous	dilute	40					+	+	+	+		20°C +
Aluminium chloride, hydrous	dilute	40					+	+	+	+		20°C +
Aluminium sulphate, hydrous	dilute	40					+	+	+	+		20°C +
Ammonia solution, hydrous	saturated	20	20% +	20% +	20% +		+	+	+	20% +		
Ammonium chloride, hydrous	saturated	60				3% o	+	+	+			20% +
Ammonium nitrate, hydrous	dilute	40					+	+	+	+		20% +
Ammonium sulphate, hydrous	dilute	40					+	+	+			-
Aniline hydrochloride, hydrous	saturated	20					+	o	o			
Aniline, pure	100	20	o	o	o		+	+	+	-	+	
Benzaldehyde, hydrous	saturated	20	pure o	pure o	pure o		+			-		-
Benzine	100	20	+	+	+		o	+	o	-	o	+
Benzoic acid, hydrous	any	40	20% o	20% o			+	+	+	+		-
Benzole	100	20	+	+	+		o	o	o	-		-
Bleaching liquor	12,5 Cl	20	-	-	o	3% -	+	+	+	+		-
Borax, hydrous	dilute	40					+	+	+	+		20% o
Boric acid, hydrous	dilute	40	o	o	o	3% o	+	+	+			20% +
Bromine, liquid	100	20	-	-	-		-	-	-	-	-	-
Butanediol, hydrous	to 10	20	pure +	pure +			+	+	+			
Butanol	to 100	20					+	+	+	+		+
Butylacetate	100	20	+	+	+		o	o	o	-		-
Calcium chloride, hydrous	saturated	40	+	+	+		+	+	+	+		20% +
Carbon bisulphide	100	20	+	+	+		+	o	o	-		-
Carbon dioxide	100	60	+	+	+							20% +
Carbon dioxide, dry	100	60					+	+	+	50°C +		20% +
Carbon tetrachloride	100	20	+	+	+		-	o	-	-		
Caustic potash solution, hydrous	50	20	+	+	+		+	+	+	+	10% +	
Caustic soda lye, hydrous	10	20	+	+	+	3% o	+	+	+	+	50% +	
Chlorine	any	20	-	-	-		-	-	-	-		-
Chrome alum, hydrous	dilute	40					+	+	+			20% +
Citric Acid	to 10	40	20% +	20% +	20% +	3% o	+	+	+	+		20% +
Cooling liquids DIN 53521		120	o	o								
Copper monochloride, hydrous	saturated	20					+	+	+			+
Copper sulphate, hydrous	saturated	60					+	+	+			20% +
Cresol, hydrous	to 90	20	pure -	pure -			+	+	o	o		-
Cyclohexanol	-	20	+	+	+		+	+	+	+		+
Diesel fuel		85	+	+	+	20% +	20% +	20% +	20% +			
Drilling oil			+	+	+							
Ethanoic acid	10	20	o	o	+	3% o	+	+	+	o	+	
Ethyl alcohol, hydrous	10	20	40 Vol.%+	40 Vol.%+	40 Vol.%+		+				+	+
Ethyl dichloride	100	20					o	-	-			-
Ethyl ether	100	20					o					o
Ethylene oxide, liquid	100	20					o					
Ferric cyanide, hydrous	saturated	60					+	+	+			
Ferrous chloride, hydrous, indiff.	10	20				+	+	+	+		+	
Fluorine	50	40	pure -	pure -	pure -		-	-	-			
Formaldehyde, hydrous	dilute	40	pure +	pure +	pure +		40% +	40% +	40% +	30% +		20°C o
Formic acid, hydrous	10	20	o	o	+		+	+		+		
Glucose, hydrous	any	50					+	+	+			
Hydraulic fluid, hardly inflammable		80	+	+	+							
Hydraulic oil H and HL (DIN 51524)		100	+	+	+							

	Concentration %	at temp. +°C	Poly-amide	Poly-amide	Poly-amide	Thermo-plastic Polyurethane	Poly-propylene	Poly-ethylene	Poly-ethylene	Poly-styrene	Thermo-plastic elastomere	Nitrile-butadiene-rubber
Reagents			PA 6	PA 66	PA 12	PU	PP	HD-PE	LD-PE	PS	TPE	NBR
Hydrobromic acid, hydrous	to 10	40	-	-	-		+	+	+			-
Hydrochloric acid, hydrous	30	20	20% -	20% -	20% -	3% -	+	+	+	15% +	10% +	o
Hydrogen	100	60	20°C +	20°C +	20°C +		+	+	+			20°C +
Hydrosilicofluoric acid, hydrous	to 30	20	-	-			+	+	+			
Hydroxylamine sulphate, hydrous	to 12	30					+					
Kerosine	100	80	+	+	+		20°C +	20°C +	20°C o	-		
Lactic acid, hydrous	to 90	20	10% +	10% +	10% +	3% o	+	+	+	80% +		+
Lubricating grease, base diester oil		110	o	o								
Lubricating grease (base polyphenyle ester)		110	+	+	+							
Lubricating grease, base silicone oil		110	+	+	+							
Magnesium carbonate, hydrous	saturated	100					+			50°C +		
Magnesium chloride, hydrous	saturated	20	10% +	10% +	10% +		+	+	+	+		+
Mercury	pure	20	+	+	+		+	+	+	+		+
Methyl alcohol	100	20	+	+	+		40°C +	+	+	+	+	+
Methylene chloride	100	20	o	o	o		o	o	-			
Mineral oil			+	+	+		20°C +	20°C +	20°C +			
Nickel chloride, hydrous	saturated	20	10% o	10% o	10% o		+			+		+
Nickel sulphate, hydrous	saturated	20	10% o	10% o	10% o		+	+	+			+
Nitric acid, hydrous	50	20	-	-	-	3% -	o	o	o	30% +		-
Nitro glycerin	dilute	20						-	-			
Oil and grease		20	+	+	+		o				o	
Oleic acid	-	20	+	+	+		+	+	+	+		o
Oxalic acid	any	20	10% o	10% o	10% o	3% o	+	+	+	+		o
Ozone	pure		-	-	-		o	o	o			
Phosgene, gaseous	100	20					o	o	o			
Phosphoric acid, hydrous	dilute	20	10% -	10% -	10% -	3% o	+	+	+	86% +		-
Phosphorus pentoxide	100	20					+					
Potassium bromide, hydrous	any	20	10% +	10% +	10% +		+	+	+	+		
Potassium chloride, hydrous	10	20	+	+	+		+	+	+	+		+
Potassium dichromate, hydrous	40	20	5% o	5% o	5% o		+	+	+			+
Potassium nitrate, hydrous	any	20	10% +	10% +	10% +		+	+	+	+		+
Potassium permanganate, hydrous	saturated	20					+			+		
Sea water		40	+	+	+	20°C +	+	+	+	+	+	20°C +
Soap solution, hydrous	any	20	dilute +	dilute +	dilute +		+	+	+			+
Sodium chlorate, hydrous	saturated	20	10% o	10% o	10% o		+	+	+			
Sodium sulphide, hydrous	dilute	40					+	+	+			
Sulphuric acid, hydrous	10	20	-	-	-	3% -	50% +	50% +	50% +	+	98% +	-
Tin dichloride, hydrous	dilute	40					+	+	+	-	10% +	20°C +
Toluene	100	20	+	+	+	-		o	o	o		-
Trichloroethylene	100	20	o	o	o		o	o	-			
Urea, hydrous	to 10	40	20% +	20% +	20% +		+	+	+	+		
Vinyl acetate	100	20					+					
Waste gas, containing carbon dioxide	any	60						+	+			
Waste gas, containing SO2	low	60						+	+			
Xylene	100	20	+	+	+		-	o	o	-		-
Zinc chloride, hydrous	dilute	60	10% o	10% o			+	+	+	50°C +		20°C +
Zinc sulphate, hydrous	dilute	60					+	+	+			20°C +

Quelle: Kunststoff-Tabellen, B. Carlowitz, Carl Hanser Verlag, and others

The above mentioned data enable a preselection. However it is not the use of the data, to promise definite properties of the products or their suitability for a concrete application purpose. The data don't realise the purchaser to control the quality conformance.

CHART I International Protection (IP) Ratings to IEC 529

Protection Modes to EN 60529 DIN VDE 0470 Part 1			Second Digit – Degree of Water Protection								
			IP X0 No Protection	IP X1 Protection against dripping water falling vertically	IP X2 Protection against dripping water even when tilted 15° vertically	IP X3 Protection against dripping water even when tilted 60°	IP X4 Protection against splashing water from any direction	IP X5 Protection against water jets from any direction	IP X6 Protection against heavy seas from any direction	IP X7 Protection against effects of immersion	IP X8 Protection against submersion
First Digit		Protection against penetration of foreign bodies									
	Person touching										
IP 0X	No protection	No protection	IP 00								
IP 1X	Protection against touching with the hand	Protection against large solid bodies > 50mm Ø	IP 10	IP 11	IP 12						
IP 2X	Protection against touching with the finger	Protect. against med., solid bodies > 12.5 mm Ø	IP 20	IP 21	IP 22	IP 23					
IP 3X	Protection against touching with tools, wires, etc., > 2.5 mm Ø	Protection against small, solid bodies > 2.5 mm Ø	IP 30	IP 31	IP 32	IP 33	IP 34				
IP 4X	Protection against touching with tools, wires, etc., > 1 mm Ø	Protection against small, solid bodies > 1 mm Ø	IP 40	IP 41	IP 42	IP 43	IP 44				
IP 5X	Protection against touching with tools, wires, etc., > 1 mm Ø	Protection against internal dust accumulation	IP 50				IP 54	IP 55			
IP 6X	Protection against touching with tools, wires, etc., > 1 mm Ø	Protection against all dust penetration	IP 60					IP 65	IP 66	IP 67	IP 68

In some countries a third digit is added. It gives information about the mechanical properties of the equipment.

This designation has not yet been standardized according to current DIN and IEC regulations.

Devices in this catalogue correspond to digit IP .7.

CHART II NEMA / IP Cross Reference

The chart below provides a cross-reference from NEMA to International Protection (IP) Ratings. This cross-reference is an approximation based on the most current information available. It is not sanctioned by NEMA, IEC, or any other regulatory body. This chart should be used only as a guideline.

IEC 529 Protection Ratings	NEMA Ratings									
	1	2	3	3R	4	4X	5	6	12	13
IP 00	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
IP 10										
IP 11										
IP 20										
IP 21										
IP 22										
IP 23										
IP 30										
IP 31										
IP 32										
IP 33										
IP 40										
IP 41										
IP 42										
IP 43										
IP 50										
IP 51										
IP 52										
IP 53										
IP 54										
IP 55										
IP 56										
IP 60										
IP 61										
IP 62										
IP 63										
IP 64										
IP 65										
IP 66										
IP 67										
IP 68										

CHART III International Protection (IP) Ratings to IEC 262

The standard EN 50 262 was issued on 01.04.1998 and published in April 1999 in Germany as DIN-EN 50 262/VDE 0619. The well-known standards for cable glands, such as DIN VDE 0619: 1987-09, DIN 46 319: 1989-12, DIN 46 320-1: 1985-09 and DIN 46 320-2...-4: 1973-01 etc, are only applicable until 31.12.1999. Approved technical drawings using these standards are valid until 01.03.2001.

- 1.) Fields of application for standard EN 50 262: This European standard contains the requirements and tests for the construction and design of metric cable glands. This standard covers the cable gland as a complete part, but not the parts of cable glands.
- 2.) The screw-in thread of cable glands must be constructed according to chart 1 of EN 60 423. The dimensions of the thread are M6x0,75; M8x1; M10x1; M12x1,5; M16x1,5; M20x1,5; M25x1,5; M32x1,5; M40x1,5; M50x1,5; M63x1,5 and M75x1,5.
- 3.) The mounting holes must be dimensioned according to **Chart A**.
- 4.) Cable glands must be able to guarantee the retaining power for cables and conduits for the complete sealing section. Cable glands with traction relief for cables and conduits must free the conduits from the load of tension and twist. The tests are carried out, with in each case the smallest and largest mentioned value of the seal resp. tension relief section of the according loads and torque values in **Chart B**.

These tests are performed with test pins reproducing the outer diameters of the cables and conduits. The test pins consist of a metal rod with an elastomere sheath.

- 5.) Cable glands must be impact resistant. A test pin according to the smallest value of the sealing section is fastened to the test probe and then the test is carried out a lowest temperature according to the energy in accordance with category of **Chart C**. All specifications, charts and values are excerpts from standard DIN 50 262. Obviously further tests (electric properties, IP-Code etc.), which are necessary to classify and mark cable glands are described in this standard. It would although go beyond the scope of this catalogue.

Chart A: Mounting holes for cable glands

Thread size	12	16	20	25	32	40	50	63
Diameter of	M12	M16	M20	M25	M32	M40	M50	M63
Mounting hole								
+ 0,2/- 0,4 mm	12,5	16,5	20,5	25,5	32,5	40,5	50,5	63,5

Chart B: Tensile load for retaining power and tension relief, torque for turning tests

Cable and Conduit diameter	Retaining Power	Tensile relief Type A	Tensile relief Type B	Torque Type A and B
[mm]	[N]	[N]	[N]	[Nm]
bis 4	5	-	-	-
> 4 bis 8	10	30	75	0,10
> 8 bis 11	15	42	120	0,15
> 11 bis 16	20	55	130	0,35
>16 bis 23	25	70	140	0,60
> 23 bis 31	30	80	250	0,80
> 31 bis 43	45	90	350	0,90
> 43 bis 55	55	100	400	1,00
> 55	70	115	450	1,20

Chart C: Value for impact test

Categorie	1	2	3	4	5	6	7	8
Load [N]	2	2	2	2	10	10	10	20
Weight [Kg]	0,2	0,2	0,2	0,2	1,0	1,0	1,0	2,0
Energy [J]	0,2	0,5	1,0	2,0	4,0	7,0	10,0	20,0
Height [m]	0,1	0,25	0,5	1,0	0,4	0,7	1,0	1,0

CHART IV Tightening torque for cable glands according to standard DIN VDE 0619

In casing with female thread
respectively hole with lock nut.

Pressure screws may be tightened
with max 21/43 of the tightening
torque according to the chart.

Note:

The values in the chart serve as
a general guideline, the exact
procedure depends upon the
material.

Nominal size	Metal	Plastic moulded parts
	Tightening torque [Nm]	Tightening torque [Nm]
Pg 7	6,25	2,5
Pg 9	6,25	3,75
Pg 11	6,25	3,75
Pg 13,5	6,25	3,75
Pg 16	7,5	5,0
Pg 21	10,0	7,5
Pg 29	10,0	7,5
Pg 36	10,0	7,5
Pg 42	10,0	7,5
Pg 48	10,0	7,5

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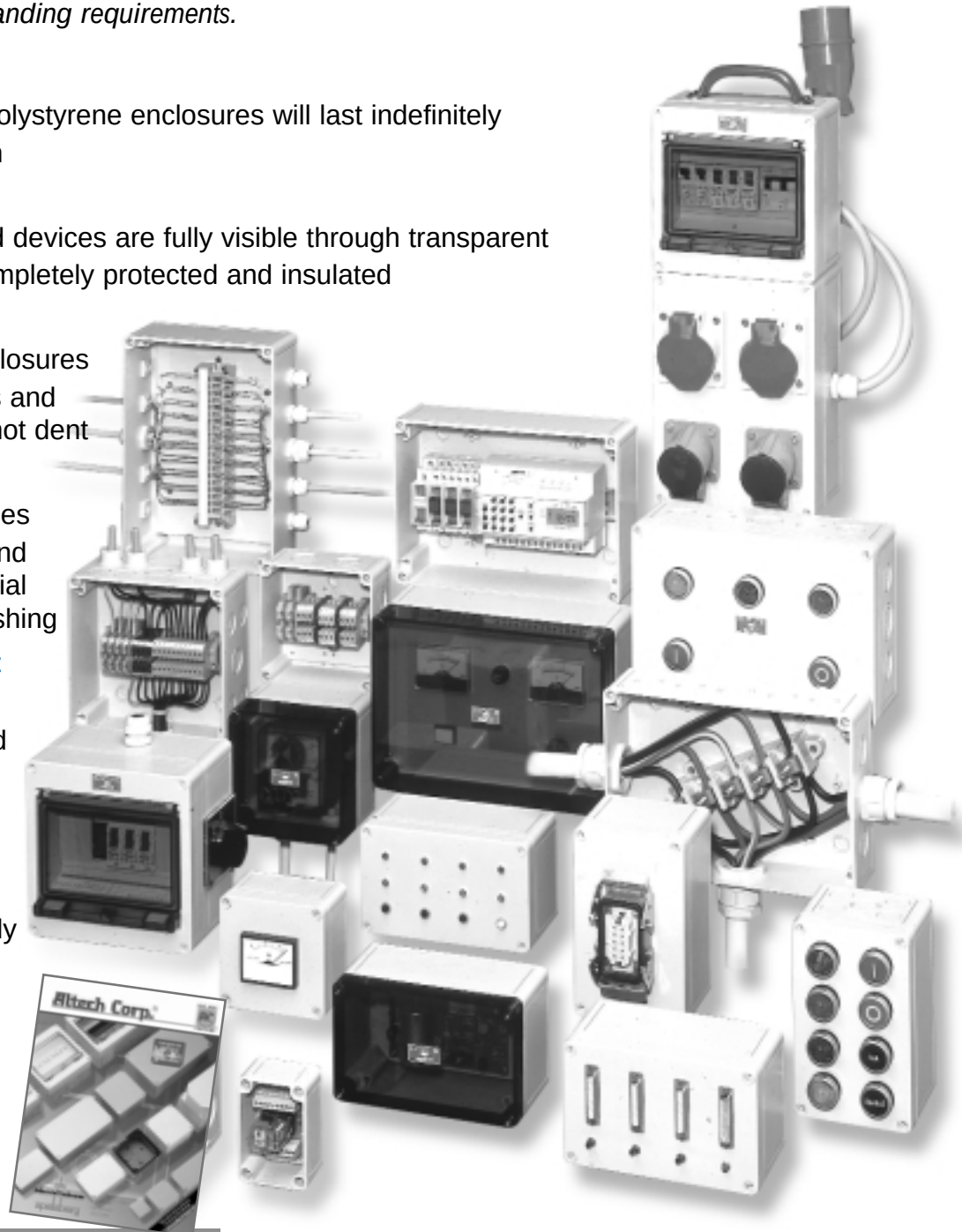
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