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MUCH MORE VARIETY

ELECTRONIC COMPONENTS — MADE IN GERMANY

- // Circular Connectors
- // Cable Glands
- // Cable Protection Systems
- // Industrial Enclosures



HUMMEL AG

Located north of Freiburg, Germany, in the towns of Waldkirch and Denzlingen near the intersection of the French, German, and Swiss borders, HUMMEL was established over sixty years ago.

In 1948

Establishment of Anton Hummel Metallwarenfabrik, a metal working factory, to produce turned metal components and assemblies for electrical, heating and sanitary installations.

In 1970

HUMMEL commences plastic processing.

In 1985

HUMMEL builds on a solid foundation by acquiring F&P Electronics, now HUMMEL EL, a division offering electronic component assemblies and self-developed systems.

In 1987

HUMMEL invests in and introduces a fully-automated electroplating production line.

1994 – 2005

HUMMEL develops an international presence, establishing factories and sales

offices in Hungary, China, Italy, Russia, Brazil, and the United Kingdom.

In 2008

HUMMEL incorporates and expands its German headquarters to include new logistics and manufacturing facilities. Global expansion continues with the establishment of a new facility in India. By doing development, construction, tool manufacture, production, electroplating and assembly under one roof, HUMMEL AG strengthens its global role as a reliable partner in new and developing markets.

HUMMEL AG capitalizes on its collective knowledge to set standards in the following product areas:

- Cable glands, cable management systems, circular metal connectors, box enclosure fittings
- Temperature controllers, operating panels, industrial loading technology, sensor technology, controls
- System solutions, front panels, customised housings, cable assembly
- Customised metal and plastic parts
- Radiator valves and fittings, design technology

HUMMEL AG is a family-owned German business that takes pride in its achievements. Its independent operation, free from the influence of outside groups, has transformed HUMMEL into a market leader responsible for numerous patents, innovations and technological developments. Its vertical integration contributes to the organization's flexibility and focus of targeting success. The strength of HUMMEL's reputation can be attributed to the functionality of its comprehensive system solutions and state of the product range that's true to, the company's motto: Setting Standards.

HUMMEL's extensive product range and ability to fulfill product requests on demand enable it to provide the highest level of customer service. Whether in partnership with its customers or independently, HUMMEL applies its extensive experience and unique approach to the establishment of new standards as it develops innovative solutions for its customers.

HUMMEL's eco-friendly products are manufactured in accordance with ISO 9001:2000.



Cable Glands ▶ 2-4



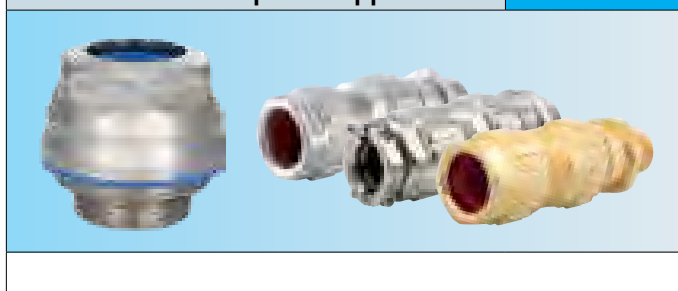
Accessories ▶ 5-6



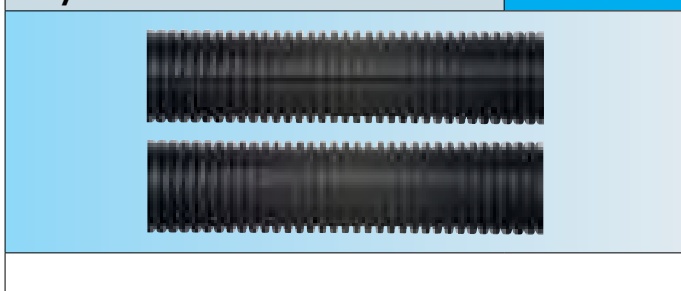
EMC Glands ▶ 7-9



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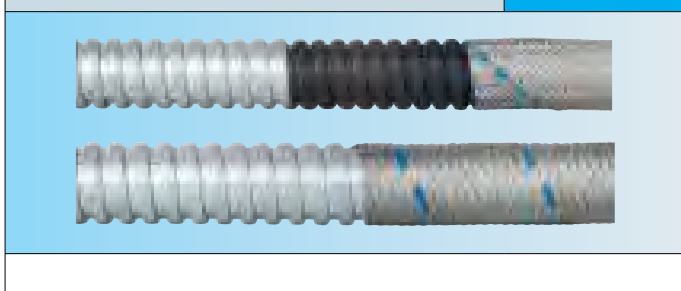
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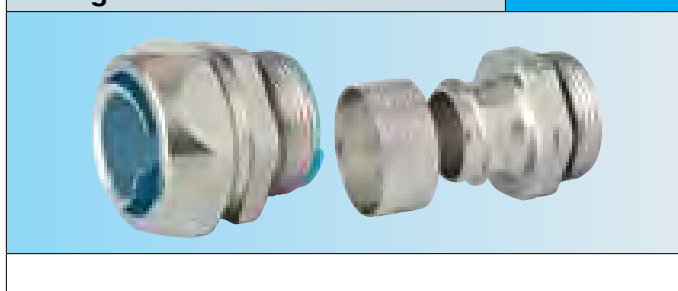
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HSK - STANDARD CABLE GLANDS

HSK-K

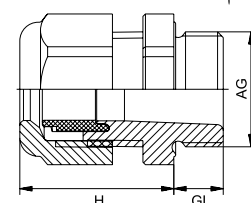
METR., PG



Material	Polyamide VO according to UL 94
Seal	Buna-N
Protection	IP 68 - 10 bar / IP 69K (NEMA 6 - 150 PSIG) with additional O-Ring
Operating Temperature	- 40 °C – 100 °C (-40 °F - 212 °F)
Colors	Grey (RAL 7035), Black (RAL 9005), Blue (RAL 5012) for the intrinsic safety "if"

Advice:

- // With additional pre-assembled O-Ring upon request
- // Other sealing material e.g. Silicone upon request



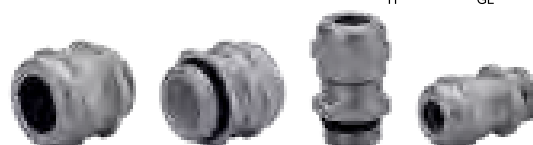
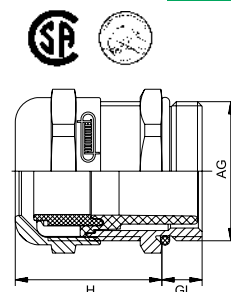
AG	Ø mm	GL mm	H mm	mm	Number grey	Number black	GL mm	Elongated Number grey	Elongated Number black
PG 7	3 – 6,5	8	21	15	1.209.0700.14	1.209.0701.14	15	1.209.0700.60	1.209.0701.60
PG 7	2 – 5	8	21	15	1.209.0700.15	1.209.0701.15	15	1.209.0700.61	1.209.0701.61
PG 9	4 – 8	8	22	19	1.209.0900.14	1.209.0901.14	15	1.209.0900.60	1.209.0901.60
PG 9	2 – 6	8	22	19	1.209.0900.15	1.209.0901.15	15	1.209.0900.61	1.209.0901.61
PG 11	5 – 10	8	25	22	1.209.1100.14	1.209.1101.14	15	1.209.1100.60	1.209.1101.60
PG 11	3 – 7	8	25	22	1.209.1100.15	1.209.1101.15	15	1.209.1100.61	1.209.1101.61
PG 13.5	6 – 12	9	27	24	1.209.1300.14	1.209.1301.14	15	1.209.1300.60	1.209.1301.60
PG 13.5	5 – 9	9	27	24	1.209.1300.15	1.209.1301.15	15	1.209.1300.61	1.209.1301.61
PG 16	10 – 14	10	28	27	1.209.1600.14	1.209.1601.14	15	1.209.1600.60	1.209.1601.60
PG 16	7 – 12	10	28	27	1.209.1600.15	1.209.1601.15	15	1.209.1600.61	1.209.1601.61
PG 21	13 – 18	11	31	33	1.209.2100.14	1.209.2101.14	15	1.209.2100.60	1.209.2101.60
PG 21	9 – 16	11	31	33	1.209.2100.15	1.209.2101.15	15	1.209.2100.61	1.209.2101.61
PG 29	18 – 25	11	39	42	1.209.2900.14	1.209.2901.14	15	1.209.2900.60	1.209.2901.60
PG 29	13 – 20	11	39	42	1.209.2900.15	1.209.2901.15	15	1.209.2900.61	1.209.2901.61
PG 36	22 – 32	13	48	53	1.209.3600.14	1.209.3601.14	18	1.209.3600.60	1.209.3601.60
PG 36	20 – 26	13	48	53	1.209.3600.15	1.209.3601.15	18	1.209.3600.61	1.209.3601.61
PG 42	32 – 38	13	49	60	1.209.4200.14	1.209.4201.14	18	1.209.4200.60	1.209.4201.60
PG 42	25 – 31	13	49	60	1.209.4200.15	1.209.4201.15	18	1.209.4200.61	1.209.4201.61
PG 48	37 – 44	14	49	65	1.209.4800.14	1.209.4801.14	18	1.209.4800.60	1.209.4801.60
PG 48	29 – 35	14	49	65	1.209.4800.15	1.209.4801.15	18	1.209.4800.61	1.209.4801.61
M 12 x 1,5	3 – 6,5	8	21	15	1.209.1200.50	1.209.1201.50	18	1.209.1200.30	1.209.1201.30
M 12 x 1,5	2 – 5	8	21	15	1.209.1200.51	1.209.1201.51	15	1.209.1200.31	1.209.1201.31
M 16 x 1,5	4 – 8	8	22	19	1.209.1600.50	1.209.1601.50	15	1.209.1600.30	1.209.1601.30
M 16 x 1,5	2 – 6	8	22	19	1.209.1600.51	1.209.1601.51	15	1.209.1600.31	1.209.1601.31
M 16 x 1,5	5 – 10	8	25	22	1.219.1600.50	1.219.1601.50	15	1.219.1600.30	1.219.1601.30
M 20 x 1,5	6 – 12	8	27	24	1.209.2000.50	1.209.2001.50	15	1.209.2000.30	1.209.2001.30
M 20 x 1,5	5 – 9	9	27	24	1.209.2000.51	1.209.2001.51	15	1.209.2000.31	1.209.2001.31
M 20 x 1,5	10 – 14	9	28	27	1.219.2000.50	1.219.2001.50	15	1.219.2000.30	1.219.2001.30
M 25 x 1,5	13 – 18	9	31	30	1.219.2500.50	1.219.2501.50	15	1.209.2500.30	1.209.2501.30
M 25 x 1,5	13 – 18	11	31	33	1.209.2500.50	1.209.2501.50	15	1.209.2500.31	1.209.2501.31
M 25 x 1,5	9 – 16	11	31	33	1.209.2500.51	1.209.2501.51	15		
M 32 x 1,5	15 – 21	11	39	36	1.219.3200.50	1.219.3201.50	15	1.209.3200.30	1.209.3201.30
M 32 x 1,5	18 – 25	11	39	42	1.209.3200.50	1.209.3201.50	15	1.209.3200.31	1.209.3201.31
M 32 x 1,5	13 – 20	11	39	42	1.209.3200.51	1.209.3201.51	15		
M 40 x 1,5	19 – 27	13	47	46	1.219.4000.50	1.219.4001.50	15	1.209.4000.30	1.209.4001.30
M 40 x 1,5	22 – 32	13	48	53	1.209.4000.50	1.209.4001.50	15	1.209.4000.31	1.209.4001.31
M 40 x 1,5	20 – 26	13	48	53	1.209.4000.51	1.209.4001.51	18		
M 50 x 1,5	32 – 38	13	49	60	1.209.5000.50	1.209.5001.50	18	1.209.5000.30	1.209.5001.30
M 50 x 1,5	25 – 31	13	49	60	1.209.5000.51	1.209.5001.51	18	1.209.5000.31	1.209.5001.31
M 63 x 1,5	37 – 44	14	49	65 / 68	1.209.6300.50	1.209.6301.50	18	1.209.6300.30	1.209.6301.30
M 63 x 1,5	29 – 35	14	49	65 / 68	1.209.6300.51	1.209.6301.51	18	1.209.6300.31	1.209.6301.31



Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 - 10 bar / IP 69K (NEMA 6 - 150 PSIG)
Operating Temperature	- 40 °C – 100 °C (-40 °F - 212 °F) [PA] - 35 °C – 150 °C (-31 °F - 302 °F) [PVDF]

Advice:

// Other sealing material e.g. Silicone upon request



AG	Ø mm	GL mm	H mm	mm	Number HSK-M -40 °C – 100 °C -40 °F – 215 °F	Number HSK-M PVDF -35 °C – 150 °C -31 °F – 302 °F	GL mm	Elongated Number HSK-M	Elongated Number HSK-M PVDF
PG 7	3 – 6,5	5	19	14	1.609.0700.01	1.699.0700.01	10	1.609.0700.60	1.699.0700.60
PG 7	2 – 5	5	19	14	1.609.0700.15	1.699.0700.01	10	1.609.0700.61	1.699.0700.61
PG 9	4 – 8	6	21	17	1.609.0900.01	1.699.0900.01	10	1.609.0900.60	1.699.0900.60
PG 9	2 – 6	6	21	17	1.609.0900.15	1.699.0900.15	10	1.609.0900.61	1.699.0900.61
PG 11	5 – 10	6	22	20	1.609.1100.01	1.699.1100.01	10	1.609.1100.60	1.699.1100.60
PG 11	3 – 7	6	22	20	1.609.1100.15	1.699.1100.15	10	1.609.1100.61	1.699.1100.61
PG 13.5	6 – 12	6,5	24	22	1.609.1300.01	1.699.1300.01	10	1.609.1300.60	1.699.1300.60
PG 13.5	5 – 9	6,5	24	22	1.609.1300.15	1.699.1300.15	10	1.609.1300.61	1.699.1300.61
PG 16	10 – 14	6,5	23	24	1.609.1600.01	1.699.1600.01	10	1.609.1600.60	1.699.1600.60
PG 16	7 – 12	6,5	23	24	1.609.1600.15	1.699.1600.15	10	1.609.1600.61	1.699.1600.61
PG 21	13 – 18	7	24	30	1.609.2100.01	1.699.2100.01	12	1.609.2100.60	1.699.2100.60
PG 21	9 – 16	7	24	30	1.609.2100.15	1.699.2100.15	12	1.609.2100.61	1.699.2100.61
PG 29	18 – 25	8	29	40	1.609.2900.01	1.699.2900.01	12	1.609.2900.60	1.699.2900.60
PG 29	13 – 20	8	29	40	1.609.2900.15	1.699.2900.15	15	1.609.2900.61	1.699.2900.61
PG 36	22 – 32	8	35	50	1.609.3600.01	1.699.3600.01	15	1.609.3600.60	1.699.3600.60
PG 36	20 – 26	8	35	50	1.609.3600.15	1.699.3600.15	15	1.609.3600.61	1.699.3600.61
PG 42	32 – 38	9	37	57	1.609.4200.01	1.699.4200.01	15	1.609.4200.60	1.699.4200.60
PG 42	25 – 31	9	37	57	1.609.4200.15	1.699.4200.15	15	1.609.4200.61	1.699.4200.61
PG 48	37 – 44	10	38	64	1.609.4800.01	1.699.4800.01	15	1.609.4800.60	1.699.4800.60
PG 48	29 – 35	10	38	64	1.609.4800.15	1.699.4800.15	15	1.609.4800.61	1.699.4800.61
M 12 x 1,5	3 – 6,5	6,5	19	14	1.609.1200.50	1.699.1200.50	10	1.609.1200.30	1.699.1200.30
M 12 x 1,5	2 – 5	6,5	19	14	1.609.1200.51	1.699.1200.51	10	1.609.1200.31	1.699.1200.31
M 16 x 1,5	4 – 8	6	21	17 / 19	1.609.1600.50	1.699.1600.50	10	1.609.1600.30	1.699.1600.30
M 16 x 1,5	2 – 6	6	21	17 / 19	1.609.1600.51	1.699.1600.51	10	1.609.1600.31	1.699.1600.31
M 16 x 1,5	5 – 10	6	22	20	1.609.1611.50	1.699.1611.50	10	1.609.1611.30	1.699.1611.30
M 20 x 1,5	6 – 12	6	23	22	1.609.2000.50	1.699.2000.50	10	1.609.2000.30	1.699.2000.30
M 20 x 1,5	5 – 9	6	23	22	1.609.2000.51	1.699.2000.51	10	1.609.2000.31	1.699.2000.31
M 20 x 1,5	10 – 14	6	24	24	1.609.2016.50	1.699.2016.50	10	1.609.2016.30	1.699.2016.30
M 25 x 1,5	13 – 18	7	26	30	1.609.2500.50	1.699.2500.50	12	1.609.2500.30	1.699.2500.30
M 25 x 1,5	9 – 16	7	26	30	1.609.2500.51	1.699.2500.51	12	1.609.2500.31	1.699.2500.31
M 32 x 1,5	15 – 21	8	31	40	1.609.3200.50	1.699.3200.50	12	1.609.3200.30	1.699.3200.30
M 32 x 1,5	18 – 25	8	31	40	1.609.3200.51	1.699.3200.51	12	1.609.3200.31	1.699.3200.31
M 32 x 1,5	13 – 20	8	33	36	1.609.3200.52		12	1.609.3200.32	
M 40 x 1,5	19 – 27	8	37	50	1.609.4000.50	1.699.4000.50	15	1.609.4000.30	1.699.4000.30
M 40 x 1,5	22 – 32	8	37	50	1.609.4000.51	1.699.4000.51	15	1.609.4000.31	1.699.4000.31
M 40 x 1,5	20 – 26	8	33	46	1.609.4000.52		15	1.609.4000.32	
M 50 x 1,5	32 – 38	9	37	57	1.609.5000.50		15	1.609.5000.30	
M 50 x 1,5	25 – 31	9	37	57	1.609.5000.51		15	1.609.5000.31	
M 63 x 1,5	37 – 44	10	38	64 / 68	1.609.6300.50		15	1.609.6300.30	
M 63 x 1,5	29 – 35	10	38	64 / 68	1.609.6300.51		15	1.609.6300.31	

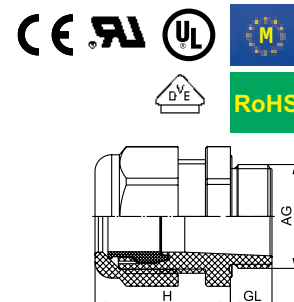
METRICA CABLE GLANDS

METRICA – P



Material	Polyamide
Seal	Buna-N
Protection	IP 68 - 10 bar / IP 69K (NEMA 6 - 150 PSIG) with additional O-Ring
Operating Temperature	- 40 °C – 100 °C (-40 °F - 212 °F)
Colors	Grey (RAL 7035), Black (RAL 9005), Blue (RAL 5012) for the intrinsic safety "i"

Advice: // With additional pre-assembled O-Ring upon request
// Other sealing material e.g. Silicone upon request



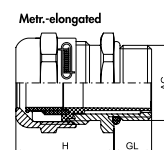
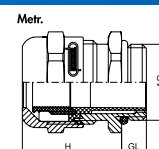
AG	Ø mm	GL mm	H mm	mm	Number grey	Number black	GL mm	Elongated Number grey	Elongated Number black
M 12 x 1,5	4 – 7	8	22	15	1.218.1200.50	1.218.1201.50	15	1.218.1200.30	1.218.1201.30
M 12 x 1,5	2 – 5	8	22	15	1.218.1200.51	1.218.1201.51	15	1.218.1200.31	1.218.1201.31
M 16 x 1,5	6 – 10	8	26	19	1.218.1600.50	1.218.1601.50	15	1.218.1600.30	1.218.1601.30
M 16 x 1,5	3 – 7	8	26	19	1.218.1600.51	1.218.1600.51	15	1.218.1600.31	1.218.1601.31
M 20 x 1,5	8 – 13	9	29	24	1.218.2000.50	1.218.2001.50	15	1.218.2000.30	1.218.2001.30
M 20 x 1,5	7 – 10	9	29	24	1.218.2000.51	1.218.2001.51	15	1.218.2000.31	1.218.2001.31
M 25 x 1,5	11 – 17	10	33	30	1.218.2500.50	1.218.2501.50	15	1.218.2500.30	1.218.2501.30
M 25 x 1,5	8 – 13	10	33	30	1.218.2500.51	1.218.2501.51	15	1.218.2500.31	1.218.2501.31
M 32 x 1,5	11 – 21	10	41	36	1.218.3200.50	1.218.3201.50	15	1.218.3200.30	1.218.3201.30
M 32 x 1,5	10 – 15	10	41	36	1.218.3200.51	1.218.3201.51	15	1.218.3200.31	1.218.3201.31
M 40 x 1,5	19 – 28	12	46	46	1.218.4000.50	1.218.4001.50	18	1.218.4000.30	1.218.4001.30
M 40 x 1,5	15 – 23	12	46	46	1.218.4000.51	1.218.4001.51	18	1.218.4000.31	1.218.4001.31
M 50 x 1,5	27 – 35	12	52	55	1.218.5000.50	1.218.5001.50	18	1.218.5000.30	1.218.5001.30
M 50 x 1,5	22 – 29	12	52	55	1.218.5000.51	1.218.5001.51	18	1.218.5000.31	1.218.5001.31
M 63 x 1,5	36 – 48	12	57	68	1.218.6300.50	1.218.6301.50	18	1.218.6300.30	1.218.6301.30
M 63 x 1,5	28 – 39	12	57	68	1.218.6300.51	1.218.6301.51	18	1.218.6300.31	1.218.6301.31

METRICA – M



Material	Nickel plated brass
Clamping insert	Polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 - 10 bar / IP 69K (NEMA 6 - 150 PSIG)
Operating Temperature	- 40 °C – 100 °C (-40 °F - 212 °F)

METR., METR. - ELONGATED



Advice:
// Other sealing material e.g. Silicone upon request

AG	mm	GL mm	H mm	mm	Number	GL mm	Number elongated
M 12 x 1,5	4 – 7	6	20	14	1.618.1200.50	10	1.618.1200.30
M 12 x 1,5	2 – 5	6	20	14	1.618.1200.51	10	1.618.1200.31
M 16 x 1,5	6 – 10	6	25	19	1.618.1600.50	10	1.618.1600.30
M 16 x 1,5	3 – 7	6	25	19	1.618.1600.51	10	1.618.1600.31
M 20 x 1,5	8 – 13	6.5	26	24	1.618.2000.50	10	1.618.2000.30
M 20 x 1,5	7 – 10	6.5	26	24	1.618.2000.51	10	1.618.2000.31
M 25 x 1,5	11 – 17	7	29	29	1.618.2500.50	12	1.618.2500.30
M 25 x 1,5	8 – 13	7	29	29	1.618.2500.51	12	1.618.2500.31
M 32 x 1,5	11 – 21	8	37	34	1.618.3200.50	12	1.618.3200.30
M 32 x 1,5	10 – 15	8	37	34	1.618.3200.51	12	1.618.3200.31
M 40 x 1,5	19 – 28	8	40,5	44	1.618.4000.50	15	1.618.4000.30
M 40 x 1,5	15 – 23	8	40,5	44	1.618.4000.51	15	1.618.4000.31
M 50 x 1,5	27 – 35	9	49,5	55	1.618.5000.50	15	1.618.5000.30
M 50 x 1,5	22 – 29	9	49,5	55	1.618.5000.51	15	1.618.5000.31
M 63 x 1,5	34 – 48	10	49	68	1.618.6300.50	15	1.618.6300.30
M 63 x 1,5	28 – 39	10	49	68	1.618.6300.51	15	1.618.6300.31

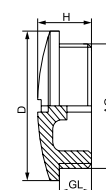
V-N-FS

METR.



Material	Polyamide
Protection	IP 54
Operating Temperature	- 40 °C – 100 °C (-40 °F - 212 °F)
Colors	Grey (RAL 7035), Black (RAL 9005)

Advice:
// Other colors upon request



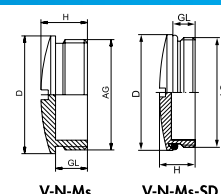
AG	GL mm	H mm	D mm	Number PA grey	Number PA black
M 12 x 1,5	6	10	15	1.251.1200.50	1.251.1201.50
M 16 x 1,5	7	11,5	20	1.251.1600.50	1.251.1601.50
M 20 x 1,5	6	9,5	25	1.251.2000.50	1.251.2000.51
M 25 x 1,5	11	15,5	30	1.251.2500.50	1.251.2500.51
M 32 x 1,5	11	16	38	1.251.3200.50	1.251.3200.51
M 40 x 1,5	13	18	46	1.251.4000.50	1.251.4000.51
M 50 x 1,5	13	18,5	56	1.251.5000.50	1.251.5000.51
M 63 x 1,5	15	19	69	1.251.6300.50	1.251.6300.51
PG 7	6	8	15	1.251.0700.11	1.251.0701.11
PG 9	6	9	19	1.251.0900.11	1.251.0901.11
PG 11	6	9	22	1.251.1100.11	1.251.1101.11
PG 13,5	6	9,5	25	1.251.1300.11	1.251.1301.11
PG 16	6	9,5	27	1.251.1600.11	1.251.1601.11
PG 21	8	11	33	1.251.2100.11	1.251.2101.11
PG 29	8	12	44	1.251.2900.11	1.251.2901.11
PG 36	10	15	55	1.251.3600.11	1.251.3601.11
PG 42	10	16	62	1.251.4200.11	1.251.4201.11
PG 48	12	16	69	1.251.4800.11	1.251.4801.11

V-N-MS | V-N-MS-SD

METR., PG



Material	Nickel plated brass
Protection	IP 54 (V-N-MS), IP 68 (V-N-MS-SD)



V – N – MS

AG	GL mm	H mm	D mm	Number
M 12 x 1,5	5	7,5	14	1.052.1200.50
M 16 x 1,5	5	9,0	18	1.052.1600.50
M 20 x 1,5	6,5	9,5	22	1.052.2000.50
M 25 x 1,5	7	11,0	28	1.052.2500.50
M 32 x 1,5	8	12,0	35	1.052.3200.50
M 40 x 1,5	8,5	13,0	44	1.052.4000.50
M 50 x 1,5	9	15,0	54	1.052.5000.50
M 63 x 1,5	10	16,0	67	1.052.6300.50
PG 7	5	8	14	1.052.0700.01
PG 9	6	9	17	1.052.0900.01
PG 11	6	9	20	1.052.1100.01
PG 13,5	6,5	9,5	22	1.052.1300.01
PG 16	6,5	9,5	24	1.052.1600.01
PG 21	7	11	30	1.052.2100.01
PG 29	8	12	39	1.052.2900.01
PG 36	9	15	50	1.052.3600.01
PG 42	10	16	57	1.052.4200.01
PG 48	10	16	64	1.052.4800.01

V – N – MS – SD

AG	GL mm	H mm	D mm	Number
M 12 x 1,5	6,5	9,5	14	1.052.1201.50
M 16 x 1,5	6	9	20	1.052.1601.50
M 20 x 1,5	6,5	9,5	24	1.052.2001.50
M 25 x 1,5	7	11	28	1.052.2501.50
M 32 x 1,5	8	12,5	35	1.052.3201.50
M 40 x 1,5	8	12	45	1.052.4001.50
M 50 x 1,5	9	15	55	1.052.5001.50
M 63 x 1,5	10	16	68	1.052.6301.50
PG 7	4,8	8	14	1.052.0701.01
PG 9	5,5	9	17	1.052.0901.01
PG 11	5,5	9	20	1.052.1101.01
PG 13,5	6	9,5	22	1.052.1301.01
PG 16	6	9,5	24	1.052.1601.01
PG 21	6,5	11	30	1.052.2101.01
PG 29	7,5	12	39	1.052.2901.01
PG 36	9	15	50	1.052.3601.01
PG 42	10	16	57	1.052.4201.01
PG 48	10	16	64	1.052.4801.01

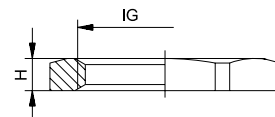
GM – FS

METR., PG



Material	Polyamide
Operating Temperature	- 40 °C – 100 °C (-40 °F - 212 °F)
Colors	Grey (RAL 7035), Black (RAL 9005)

Advice:
// Other colors upon request



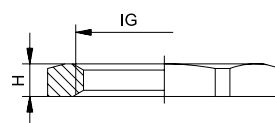
AG	H mm	 mm	Number PA VO grey	Number PA VO black
M 12 x 1,5	5	17	1.262.1200.50	1.262.1201.50
M 16 x 1,5	5	22	1.262.1600.50	1.262.1601.50
M 20 x 1,5	6	27	1.262.2000.50	1.262.2001.50
M 25 x 1,5	6,5	32	1.262.2500.50	1.262.2501.50
M 32 x 1,5	7	41	1.262.3200.50	1.262.3201.50
M 40 x 1,5	7	50	1.262.4000.50	1.262.4001.50
M 50 x 1,5	8	60	1.262.5000.50	1.262.5001.50
M 63 x 1,5	8	75	1.262.6300.50	1.262.6301.50
PG 7	5	19	1.262.0700.11	1.262.0701.11
PG 9	5	22	1.262.0900.11	1.262.0901.11
PG 11	5	24	1.262.1100.11	1.262.1101.11
PG 13,5	6	27	1.262.1300.11	1.262.1301.11
PG 16	6	30	1.262.1600.11	1.262.1601.11
PG 21	7	36	1.262.2100.11	1.262.2101.11
PG 29	7	46	1.262.2900.11	1.262.2901.11
PG 36	8	60	1.262.3600.11	1.262.3601.11
PG 42	8	65	1.262.4200.11	1.262.4201.11
PG 48	8	70	1.262.4800.11	1.262.4801.11

GM – MS

METR., PG



Material	Nickel plated brass
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IG	H mm	 mm	Number
M 12 x 1,5	2,8	15	1.161.1200.50
M 16 x 1,5	2,8	19	1.161.1600.50
M 20 x 1,5	3,0	23	1.161.2000.50
M 25 x 1,5	3,5	29	1.161.2500.50
M 32 x 1,5	4,0	36	1.161.3200.50
M 40 x 1,5	4,5	45	1.161.4000.50
M 50 x 1,5	5,5	55	1.161.5000.50
M 63 x 1,5	6,0	70	1.161.6300.50
M 75 x 1,5	8,0	85	1.161.7500.50
M 80 x 2	8,0	90	1.161.8000.50
M 90 x 2	8,0	100	1.161.9000.50
M 100 x 2	11	115	1.161.1000.50
M 110 x 2	11	125	1.161.1100.50

IG	H mm	 mm	Number
PG 7	2,8	15	1.161.0700.01
PG 9	2,8	18	1.161.0900.01
PG 11	3,0	21	1.161.1100.01
PG 13,5	3,0	23	1.161.1300.01
PG 16	3,0	26	1.161.1600.01
PG 21	3,5	32	1.161.2100.01
PG 29	4,0	41	1.161.2900.01
PG 36	5,0	51	1.161.3600.01
PG 42	5,0	60	1.161.4200.01
PG 48	5,5	64	1.161.4800.01

HSK-M EMC-D

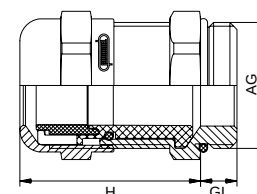
METR., METR.-ELONGATED, PG, NPT



Material	Nickel plated brass
Clamping insert	Metalised polyamide
Seal	Buna-N
O-Ring	Buna-N
Protection	IP 68 - 10 bar / IP 69K (NEMA 6 - 150 PSIG)
Operating Temperature	-40 °C - 100 °C (-40 °F - 212 °F)

Advice:

// Other sealing material e.g. Silicone upon request



AG	$\varnothing$ mm	H mm	$\varnothing$ mm	GL mm	Number	GL mm	Number elongated
M 12 x 1,5	3 – 6,5	25	14	6,5	1.631.1200.50	10	1.631.1200.30
M 16 x 1,5	4 – 8	29	17/19	6	1.631.1609.50	10	1.631.1609.30
M 16 x 1,5	5 – 10	32	20	6	1.631.1600.50	10	1.631.1600.30
M 20 x 1,5	6 – 12	32,5	22	6	1.631.2013.50	10	1.631.2013.30
M 20 x 1,5	10 – 14	33	24	6	1.631.2000.50	10	1.631.2000.30
M 25 x 1,5	13 – 18	39	30	7	1.631.2500.50	12	1.631.2500.30
M 32 x 1,5	18 – 25	45	40	8	1.631.3200.50	12	1.631.3200.30
M 40 x 1,5	24 – 32	51	50	8	1.631.4000.50	15	1.631.4000.30
M 50 x 1,5	32 – 38	57,5	57	9	1.631.5000.50	15	1.631.5000.30
M 63 x 1,5	37 – 44	52	64/68	10	1.631.6300.50	15	1.631.6300.30
PG 7	3–6,5	24	14	5	1.631.0700.01		
PG 9	4–8	28	17	6	1.631.0900.01		
PG 11	5–10	29	20	6	1.631.1100.01		
PG 13,5	6–12	31	22	6,5	1.631.1300.01		
PG 16	10–14	32	24	6,5	1.631.1600.01		
PG 21	13–18	38	30	7	1.631.2100.01		
PG 29	18–25	43	40	8	1.631.2900.01		
PG 36	24–32	48	50	8	1.631.3600.01		
PG 42	32–38	45	57	9	1.631.4200.01		
PG 48	37–44	46	64	10	1.631.4800.01		
NPT 3/8"	4–8	29	17/19	15	1.631.3800.70		
NPT 1/2"	6–12	32,5	22/24	13	1.631.1200.70		
NPT 3/4"	13–18	39	30	13	1.631.3400.70		

HSK-EMC CABLE GLANDS

HSK-M-EMC / HSK-M-PVDF-EMC

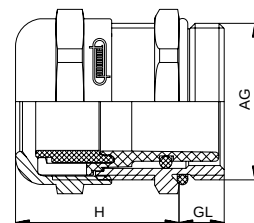
METR., METR.-ELONGATED



Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 - 10 bar / IP 69K (NEMA 6 - 150 PSIG)
Operating Temperature	-40 °C - 100 °C (-40 °F - 212 °F) (PA) -35 °C - 150 °C (-31 °F - 302 °F) (PVDF)

Advice:

- // Other sealing material e.g. Silicone upon request
- // Stainless steel on request



AG	Ø mm	H mm	mm	GL mm	Number HSK-M-EMC -40 °C - 100 °C -40 °F - 212 °F	Number HSK-M-PVDF-EMC -40 °C - 100 °C -40 °F - 212 °F	GL mm	Number HSK-M-EMC elongated -40 °C - 100 °C -40 °F - 212 °F
M 12 x 1,5	3-6,5	19	14	6,5	1.691.1200.50	1.698.1200.50	10	1.691.1200.30
M 12 x 1,5	2-5	19	14	6,5	1.691.1200.51	1.698.1200.51	10	1.691.1200.31
M 16 x 1,5	5-10	22	20	6	1.691.1600.50	1.698.1611.50	10	1.691.1600.30
M 16 x 1,5	3-7	22	20	6	1.691.1600.51	1.698.1611.51	10	1.691.1600.31
M 20 x 1,5	10-14	24	24	6	1.691.2000.50	1.698.2000.50	10	1.691.2000.30
M 20 x 1,5	7-12	24	24	6	1.691.2000.51	1.698.2000.51	10	1.691.2000.31
M 25 x 1,5	13-18	26	30	7	1.691.2500.50	1.698.2500.50	12	1.691.2500.30
M 25 x 1,5	9-16	26	30	7	1.691.2500.51	1.698.2500.51	12	1.691.2500.31
M 32 x 1,5	18-25	31	40	8	1.691.3200.50		12	1.691.3200.30
M 32 x 1,5	13-20	31	40	8	1.691.3200.51		12	1.691.3200.31
M 32 x 1,5	15-21	33	36	8	1.691.3200.52		12	1.691.3200.32
M 40 x 1,5	22-32	37	50	8	1.691.4000.50		15	1.691.4000.30
M 40 x 1,5	20-26	37	50	8	1.691.4000.51		15	1.691.4000.31
M 40 x 1,5	19-27	33	46	8	1.691.4000.52		15	1.691.4000.32
M 50 x 1,5	32-38	37	57	9	1.691.5000.50		15	1.691.5000.30
M 50 x 1,5	25-31	37	57	9	1.691.5000.51		15	1.691.5000.31
M 63 x 1,5	37-44	38	64/68	10	1.691.6300.50		15	1.691.6300.30
M 63 x 1,5	29-35	38	64/68	10	1.691.6300.51		15	1.691.6300.31

HSK-M-EMC / HSK-M-PVDF-EMC

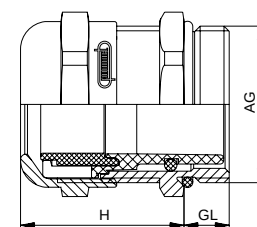
PG, PG-ELONGATED, NPT



Material	Nickel plated brass
Clamping insert	Polyamide / PVDF
Seal	Buna-N / FKM
O-Ring	Buna-N / FKM
Protection	IP 68 - 10 bar / IP 69K (NEMA 6 - 150 PSIG)
Operating Temperature	-40 °C - 100 °C (-40 °F - 212 °F) (PA) -35 °C - 150 °C (-31 °F - 302 °F) (PVDF)

Advice:

- // Other sealing material e.g. Silicone upon request
- // Stainless steel on request



AG	Ø mm	H mm	mm	GL mm	Number HSK-M-EMC -40 °C – 100 °C -40 °F – 212 °F	Number HSK-M-PVDF-EMC -40 °C – 100 °C -40 °F – 212 °F	GL mm	Number HSK-M-EMC elongated -40 °C – 100 °C -40 °F – 212 °F
PG 7	3–6,5	19	14	5	1.691.0700.01	1.698.0700.01	10	1.691.0700.60
PG 7	2–5	19	14	5	1.691.0700.15	1.698.0700.15	10	1.691.0700.61
PG 9	4–8	21	17	6	1.691.0900.01	1.698.0900.01	10	1.691.0900.60
PG 9	2–6	21	17	6	1.691.0900.15	1.698.0900.15	10	1.691.0900.61
PG 11	5–10	22	20	6	1.691.1100.01	1.698.1100.01	10	1.691.1100.60
PG 11	3–7	22	20	6	1.691.1100.15	1.698.1100.15	10	1.691.1100.61
PG 13,5	6–12	24	22	6,5	1.691.1300.01	1.698.1300.01	10	1.691.1300.60
PG 13,5	5–9	24	22	6,5	1.691.1300.15	1.698.1300.15	10	1.691.1300.61
PG 16	10–14	23	24	6,5	1.691.1600.01	1.698.1600.01	10	1.691.1600.60
PG 16	7–12	23	24	6,5	1.691.1600.15	1.698.1600.15	10	1.691.1600.61
PG 21	13–18	24	30	7	1.691.2100.01	1.698.2100.01	12	1.691.2100.60
PG 21	9–16	24	30	7	1.691.2100.15	1.698.2100.15	12	1.691.2100.61
PG 29	18–25	29	40	8	1.691.2900.01	1.698.2900.01	12	1.691.2900.60
PG 29	13–20	29	40	8	1.691.2900.15	1.698.2900.15	12	1.691.2900.61
PG 36	22–32	35	50	8	1.691.3600.01	1.698.3600.01	15	1.691.3600.60
PG 36	20–26	35	50	8	1.691.3600.15	1.698.3600.15	15	1.691.3600.61
PG 42	32–38	37	57	9	1.691.4200.01		15	1.691.4200.60
PG 42	25–31	37	57	9	1.691.4200.15		15	1.691.4200.61
PG 48	37–44	38	64	10	1.691.4800.01		15	1.691.4800.60
PG 48	29–35	38	64	10	1.691.4800.15		15	1.691.4800.61
NPT 3/8"	4–8	21	17/19	15	1.691.3800.70			
NPT 3/8"	2–6	21	17/19	15	1.691.3800.71			
NPT 1/2"	6–12	24	22/24	13	1.691.1200.70			
NPT 1/2"	5–9	24	22/24	13	1.691.1200.71			
NPT 3/4"	13–18	25	30	13	1.691.3400.70			
NPT 3/4"	9–16	25	30	13	1.691.3400.71			

HSK CABLE GLANDS FOR SPECIAL APPLICATIONS

HSK-INOX-HD PRO

METR.



Material	1.4404 / AISI 316 L
Seal	VMQ (Silicone), blue (similar RAL 5017)
Protection	IP 66, IP 68 to 10 bar, IP 69K
Operating Temperature	- 40 °C – 120 °C (-40 °F – 248 °F)
Advice:	// EMC connection integrated // VDMA Riboflavin cleaning test passed // EHEDG 01 cleaning test passed // EHEDG certified EL class AUX approved

AG	mm	GL	H	D	mm	Number
M 12 x 1,5	8	21	15	21	15	1.209.1200.50
M 16 x 1,5	8	21	15	21	15	1.209.1200.51
M 20 x 1,5	8	22	19	22	19	1.209.1600.50
M 20 x 1,5	8	22	19	22	19	1.209.1600.51
M 25 x 1,5	8	27	24	27	24	1.209.2000.50
M 25 x 1,5	9	27	24	27	24	1.209.2000.51
M 32 x 1,5	9	31	30	31	30	1.219.2500.50
M 32 x 1,5	11	31	33	31	33	1.209.2500.50

HSK-INOX-HD

METR.



Material	1.4404 / AISI 316 L
Seal	VMQ (Silicone), blue (similar RAL 5017)
Protection	IP 68
Operating Temperature	- 40 °C – 120 °C (-40 °F – 248 °F)
Advice:	// EMC integrated // Elongated threads on request // other sizes upon request // temp. range -31 °F – 302 °F (PVDF Version) on request // ideal for foam-cleaning

AG	mm	GL	H	D	mm	Number
M 12 x 1,5	8	21	15	21	15	1.209.1200.50
M 16 x 1,5	8	21	15	21	15	1.209.1200.51
M 20 x 1,5	8	22	19	22	19	1.209.1600.50
M 20 x 1,5	8	22	19	22	19	1.209.1600.51
M 25 x 1,5	8	27	24	27	24	1.209.2000.50

INDUSTRIAL CABLE GLANDS FOR HAZARDOUS AREAS

EXIOS



ATEK IECEX ATEX IECEX ATEX IECEX ATEX

HSK Ex-e Standard cable glands



ATEK IECEX ATEX IECEX ATEX IECEX ATEX

HSK-EMC-Ex e safety cable glands



ATEK IECEX ATEX IECEX ATEX IECEX ATEX

HSK Ex-e cable glands for special applications



ATEK IECEX ATEX IECEX ATEX IECEX ATEX

HSK-Ex d safety cable glands



ATEK IECEX ATEX IECEX ATEX IECEX ATEX

Ex accessories



ATEK IECEX ATEX IECEX ATEX IECEX ATEX

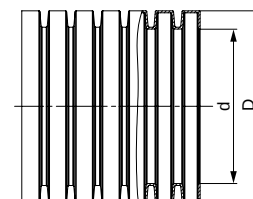
POLEON



Material	Polyamide
Operating Temperature	-40 °C - +120 °C (-40 °F - +248 °F)
Colours	grey (RAL 7031), black (RAL 9005)

Advice:
// raw material according to UL 94

RoHS



Size DN	d mm	D mm	R mm	Number grey	Number black
6	6,5	10	15	1.510.0600.14	1.510.0601.14
10	10	13	25	1.510.0900.14	1.510.0901.14
12	12	15,8	35	1.510.1100.14	1.510.1101.14
14	14,2	18,4	35	1.510.1300.14	1.510.1301.14
17	16,5	21,2	40	1.510.1600.14	1.510.1601.14
23	23	28,4	45	1.510.2100.14	1.510.2101.14
29	29	34,5	55	1.510.2900.14	1.510.2901.14
37	36	42,5	65	1.510.3600.14	1.510.3601.14
50	48	54,5	80	1.510.4800.14	1.510.4801.14

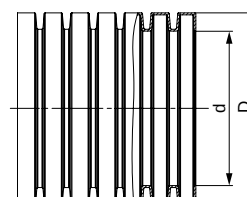
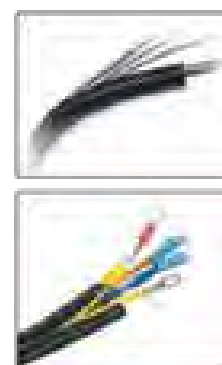
POLEON SLIT



Material	Polyamide
Operating Temperature	-40 °C - +120 °C (-40 °F - +248 °F)
Colours	grey (RAL 7031), black (RAL 9005)

Advice:
// raw material according to UL 94

RoHS



Size DN	d mm	D mm	R mm	Number grey	Number black
6	6,5	10	15	1.527.0600.00	1.527.0601.00
10	10	13	25	1.527.0900.00	1.527.0901.00
12	12	15,8	35	1.527.1100.00	1.527.1101.00
14	14,2	18,4	35	1.527.1300.00	1.527.1301.00
17	16,5	21,2	40	1.527.1600.00	1.527.1601.00
23	23	28,4	45	1.527.2100.00	1.527.2101.00
29	29	34,5	55	1.527.2900.00	1.527.2901.00
37	36	42,5	65	1.527.3600.00	1.527.3601.00
50	48	54,5	80	1.527.4800.00	1.527.4801.00

FITTINGS POLYAMIDE

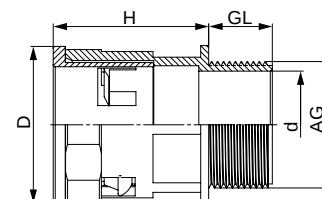
POLEONFIT



Material	Polyamide
Protection category	IP 55
Operating Temperature	- 30 °C – + 80 °C (– 22 °F – + 176 °F)
Colours	grey (RAL 7031), black (RAL 9005)

RoHS

Advice:
// raw material according to UL 94



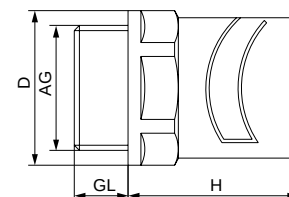
AG	d mm	D mm	GL mm	H mm	 mm	fits to Poleon DN	Number grey	Number black
M 12	6,9	18,7	11	26	15	6	1.533.1200.50	1.533.1201.50
M 16	10,8	21,7	11	26	18	10	1.533.1600.51	1.533.1601.51
M 16	10,9	26	11	26,5	20	12	1.533.1600.50	1.533.1601.50
M 20	14,7	28	11	31	23	14	1.533.2000.51	1.533.2001.51
M 20	15,2	32	13	33	27	17	1.533.2000.50	1.533.2001.50
M 25	18,7	39,5	16	39	34	23	1.533.2500.50	1.533.2501.50
M 32	25,7	46,5	16	43	40	29	1.533.3200.50	1.533.3201.50
M 40	32,7	55,5	16	45,5	50	37	1.533.4000.50	1.533.4001.50
M 50	51,4	67,5	16	47,5	62	50	1.533.5000.50	1.533.5001.50
PG 7	6,9	18,7	11	26	15	6	1.533.0700.14	1.533.0701.14
PG 9	10,3	21,7	11	26	18	10	1.533.0900.14	1.533.0901.14
PG 11	13,3	26	11	26,5	20	12	1.533.1100.14	1.533.1101.14
PG 13,5	15,3	28	11	31	23	14	1.533.1300.14	1.533.1301.14
PG 16	16,6	32	13	33	27	17	1.533.1600.14	1.533.1601.14
PG 21	22,3	39,5	16	39	34	23	1.533.2100.14	1.533.2101.14
PG 29	31,7	46,5	16	43	40	29	1.533.2900.14	1.533.2901.14
PG 36	40,5	55,5	16	45,5	50	37	1.533.3600.14	1.533.3601.14
PG 48	51,7	67,5	16	47,5	62	50	1.533.4800.14	1.533.4801.14

POLEONFIT N

METR., PG, NPT



Material	Polyamide
Protection category	IP 54 with O-Ring with fixed conduit mounting IP 65
Operating Temperature	- 20 °C – + 80 °C (- 4 °F – + 176 °F)
Colours	grey (RAL 7031), black (RAL 9005)



AG	D mm	GL mm	H mm	mm	fits to Poleon DN	Number grey	Number black
M 16 x 1,5	20	8	23	17	10	1.511.1600.50	1.511.1601.50
M 20 x 1,5	26,5	9	28	24	14	1.511.2000.50	1.511.2001.50
M 25 x 1,5	38,5	11	32	35	23	1.511.2500.50	1.511.2501.50
M 32 x 1,5	46	11	35	42	29	1.511.3200.50	1.511.3201.50
PG 9	19	8	23	17	10	1.511.0900.14	1.511.0901.14
PG 11	23	8	25	21	12	1.511.1100.14	1.511.1101.14
PG 13,5	26,5	9	28	24	14	1.511.1300.14	1.511.1301.14
PG 16	30	10	29	27	17	1.511.1600.14	1.511.1601.14
PG 21	38,5	11	32	35	23	1.511.2100.14	1.511.2101.14
PG 29	46	11	35	42	29	1.511.2900.14	1.511.2901.14
PG 36	54,5	13	41	50	37	1.511.3600.14	1.511.3601.14
PG 48	70	14	46	64	50	1.511.4800.14	1.511.4801.14
NPT 3/8"	19	15	23	17	10	1.511.3800.70	1.511.3801.70
NPT 1/2"	30	13	29	27	17	1.511.1216.70	1.511.1217.70
NPT 3/4"	38,5	13	32	35	23	1.511.3400.70	1.511.3401.70
NPT 1"	46	15	35	42	29	1.511.1000.70	1.511.1001.70

QUICK CONNECTOR



Material	Polyamide - 6
Operating Temperature	Min -40 °C, Max100 °C, Short term 150 °C

Size DN	Type	Size	PU	Number black
6.5	PA	PG 7	100	SCAD 10.0
10	PA	PG 9	100	SCAD 13.0
12	PA	PG 11	100	SCAD 15.8
14	PA	PG 13.5	100	SCAD 18.5
17	PA	PG 16	50	SCAD 21.2
23	PA	PG 21	25	SCAD 28.5
29	PA	PG 29	25	SCAD 34.5
37	PA	PG 36	10	SCAD 42.5
50	PA	PG 48	5	SCAD 54.5

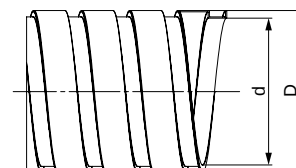
METAL CABLE CONDUIT

MELEON A



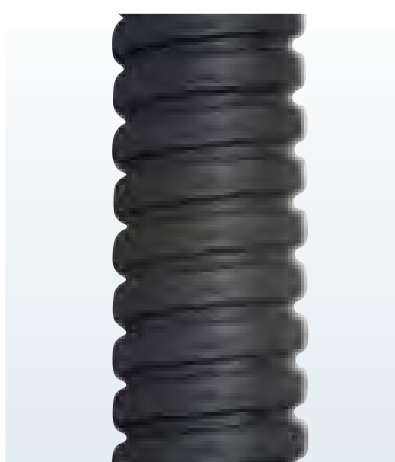
Material	Galvanised steel
Protection category	IP 40
Operating Temperature	- 100 °C - + 300 °C (- 148 °F - + 572 °F)

RoHS



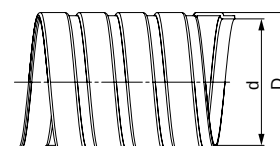
Size DN	d mm	D mm	R mm	Number
7	7,5	10,5	25	1.560.0760.00
9	9	12	30	1.560.0960.00
11	11	14	30	1.560.1160.00
14	14	17	40	1.560.1460.00
16	16	19	45	1.560.1660.00
21	21	24	55	1.560.2160.00
26	26	30	55	1.560.2660.00
37	37	41	80	1.560.3760.00
40	40	44	80	1.560.4060.00
51	51	55	90	1.560.5160.00

MELEON B



Material	Galvanised steel, PVC coating
Protection category	IP 65
Operating Temperature	- 15 °C - + 70 °C (5 °F - + 158 °F)

RoHS



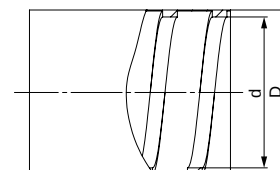
Size DN	d mm	D mm	R mm	Number
7	7,5	11,5	25	1.561.0761.00
9	9	13	30	1.561.0961.00
11	11	15	30	1.561.1161.00
14	14	18	40	1.561.1461.00
16	16	20	45	1.561.1661.00
21	21	25	55	1.561.2161.00
26	26	31	55	1.561.2661.00
37	37	42	80	1.561.3761.00
40	40	45	80	1.561.4061.00
51	51	56	90	1.561.5161.00

MELEON PRO A



Material	Galvanised steel, PVC coating
Protection category	IP 66
Operating Temperature	- 20 °C - 105 °C (- 4 °F - 221 °F)

RoHS



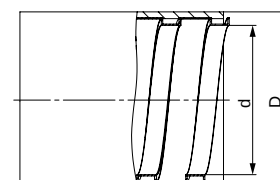
Size DN	d mm	D mm	R mm	Number
10	10,3	16	40	1.562.1061.00
12	12,3	18	45	1.562.1261.00
16	15,5	21	65	1.562.1661.00
21	20,9	26,5	100	1.562.2161.00
27	26,5	33,3	135	1.562.2761.00
35	35	42	175	1.562.3561.00
40	40	48,2	230	1.562.4061.00
51	51,5	60	280	1.562.5161.00

MELEON PRO B



Material	Galvanised steel
Protection category	IP 40
Operating Temperature	- 100 °C - 300 °C (- 148 °F - 572 °F)

RoHS

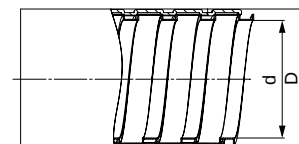


Size DN	d mm	D mm	R mm	Number
9	9	14	30	1.563.0960.00
11	11	16	35	1.563.1160.00
13	13	17,5	40	1.563.1360.00
16	16	21	45	1.563.1660.00
21	21	26	55	1.563.2160.00
26	26	32	70	1.563.2660.00
35	35	41	80	1.563.3560.00
40	40	46	90	1.563.4060.00
51	51	57	90	1.563.5160.00

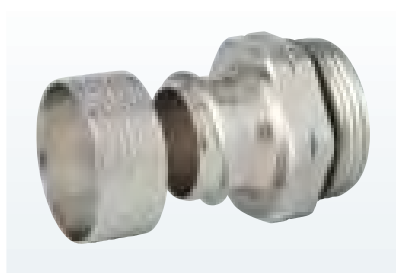
RoHS



Material	Galvanised steel
Protection category	IP 65
Operating Temperature	- 15 °C - 70 °C (5 °F - 158 °F)

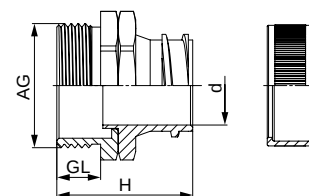


MELEON FIT



Material	Nickel plated brass
Protection category	IP 54
Operating Temperature	-20 °C - +80 °C (-4 °F - +176 °F)

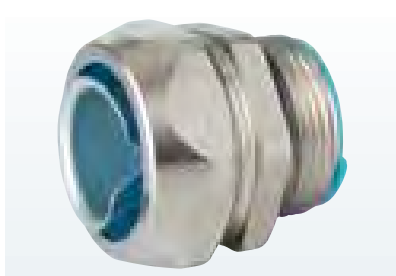
RoHS



AG	D mm	GL mm	H mm		fits to Meleon DN	Number
M 12	6	8	27	15	7	1.571.1260.50
M 16	7	8	27	20	9	1.571.1660.51
M 16	9	10	29	20	11	1.571.1660.50
M 20	12	10	29	22	14	1.571.2060.51
M 20	14	10	29	22	16	1.571.2060.50
M 25	18	10	31	28	21	1.571.2560.50
M 32	23	12	35	35	26	1.571.3260.50
M 40	33,5	14	41	45	37	1.571.4060.50
M 50	37	14	41	55	40	1.571.5060.50
M 63	46	14	41	65	51	1.571.6360.50

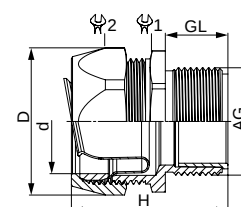
AG	D mm	GL mm	H mm		fits to Meleon DN	Number
PG 7	6	8	24	15	7	1.570.0760.14
PG 9	7	8	24	17	9	1.570.0960.14
PG 11	9	10	26	20	11	1.570.1160.14
PG 13.5	12	10	26	22	14	1.570.1360.14
PG 16	14	10	26	24	16	1.570.1660.14
PG 21	18	10	27	30	21	1.570.2160.14
PG 29	23	12	31	40	26	1.570.2960.14
PG 36	33,5	14	36	50	37	1.570.3660.14
PG 42	37	14	36	60	40	1.570.4260.14
PG 48	46	14	36	65	51	1.570.4860.14

SUITABLE FOR MELEON PRO SERIES (MELEON PRO A & MELEON PRO B AND MELEON PRO C)



Material	Nickel plated brass
Protection category	IP 67
Operating Temperature	-20 °C - 80 °C (-4 °F - 176 °F)

RoHS



AG	d mm	D mm	GL mm	H mm			fits to Meleon Pro A / Meleon Pro B, C	Number
M 12	16,5	24,5	10	31	20	22	-/09	1.572.1260.50
M 16	19	29,2	10	35	24	26	11/12	1.572.1660.51
M 16	22	32,6	11,5	39	27	29	12/13	1.572.1660.50
M 20	22	32,6	13	38,7	27	29	16	1.572.2060.50
M 25	27,5	38,8	15	41	33	35	21	1.572.2560.50
M 32	34,5	50	15	49	43	45	26/27	1.572.3260.50
M 40	43,5	60	16	51	52	54	35	1.572.4060.50
M 50	49,5	69,3	18	61	60	63	40	1.572.5060.50
M 63	62	85	20	73	74	77	51	1.572.6360.50
PG 7	16,5	24,5	10	31	20	22	-/09	1.572.0760.14
PG 9	16,5	24,5	10	31	20	22	11/12	1.572.0960.14
PG 11	19	29,2	11,5	35	24	26	12/13	1.572.1160.14
PG 13,5	22	32,6	13	39	27	29	16	1.572.1360.14
PG 16	22	32,6	13	38,7	27	29	16	1.572.1660.14
PG 21	27,5	38,8	15	41	33	35	21	1.572.2160.14
PG 29	34,5	50	15	49	43	45	26/27	1.572.2960.14
PG 36	43,5	60	16	51	52	54	35	1.572.3660.14
PG 42	49,5	69,3	18	61	60	63	40	1.572.4260.14
PG 48	62	85	20	73	74	77	51	1.572.4860.14
PG 48	46	14	41	65	51			1.571.4860.14

ENCLOSURE SOLUTIONS

ALUMINIUM ENCLOSURES: SERIES 15

Hummel aluminium enclosures are made of Al Si 12 and are RAL 7001 silver grey powder coated. Hinges can be mounted to its sides, latches to the bottom. Aluminium resist numerous alcalis and chemicals as well as oil and gasoline. The are very impact resistant.

Technical Information

	Aluminium	
Protection EN 60529		IP 66
Impact EN 50102 (+35 °C/-25 °C)		IK 09
Temperature Range		-40 °C...+80 °C
Standar color		Grey RAL 7001
Gasket		Buna-N
Cover screws		Stainless steel



OEM ENCLOSURE- PC OR ABS- SERIES 11,12 & 13

The enclosures are manufactured using the highest grade Thermoplastics, Polycarbonate and ABS for demanding OEM applications. e.g. protecting electronic & pneumatic components.

Technical Information

	Polycarbonate	ABS
Protection EN 60529	IP 66 / 67	IP 66 / 67
Impact EN 50102 (+35 °C/-25 °C)	IK 08 / IK 09	IK 08 / IK 09
Temperature Range	-50 °C...+100 °C	-40 °C...+60 °C
Fire resistance par UL 94	V-2	HB
Standar color	Grey RAL 7035	Grey RAL 7035
Transparent cover	Polycarbonate	Polycarbonate
Gasket	PUR (Polyurethane)	PUR (Polyurethane)
Cover screws	Stainless steel / Polyamide	Stainless steel / Polyamide



"Facility of customization(s) on all kind of Enclosures possible based upon requirement/request"

ARTICLE	SIZE	ARTICLE	SIZE	ARTICLE	SIZE
Series 10	Solar PLUS Enclosure in Polycarbonate (PC)		300 x 300 x 187		400 x 400 x 120
	175 x 175 x 75		300 x 400 x 132		200 x 500 x 120
	175 x 175 x 100		300 x 400 x 187		175 x 175 x 100
Series 11	Small Enclosures made of PC / ABS		300 x 600 x 132		300 x 500 x 120
	53 x 55 x 36		300 x 600 x 187		200 x 600 x 80
	53 x 65 x 36		400 x 400 x 132		200 x 600 x 120
	80 x 82 x 56		400 x 400 x 187		300 x 600 x 120
	80 x 82 x 86		400 x 600 x 132		400 x 600 x 120
	80 x 120 x 56		400 x 600 x 187		200 x 800 x 120
	80 x 120 x 86	Series 15	Aluminium Enclosures		400 x 800 x 120
	80 x 160 x 56		45 x 50 x 30	INDIAN MADE AL. ENCLOSURES	Series 19
	80 x 160 x 86		64 x 58 x 36		Enclosures made of Stainless Steel
	120 x 122 x 56		64 x 98 x 36		150 x 150 x 80
	120 x 122 x 86		64 x 150 x 36		150 x 150 x 120
	120 x 160 x 91		80 x 75 x 57		200 x 200 x 80
	120 x 200 x 86		80 x 125 x 57		200 x 200 x 120
	150 x 200 x 76		80 x 175 x 57		150 x 300 x 80
	160 x 240 x 91		80 x 250 x 57		150 x 300 x 120
	160 x 240 x 121		120 x 122 x 90		200 x 300 x 80
	230 x 300 x 86		120 x 220 x 90		200 x 300 x 120
	230 x 300 x 111		120 x 360 x 90		300 x 300 x 120
Series 12	Mid size Enclosures made of PC / ABS		160 x 160 x 90		200 x 400 x 80
	75 x 125 x 75		160 x 260 x 90		200 x 400 x 120
	75 x 125 x 100		160 x 360 x 90		300 x 400 x 120
	75 x 125 x 125		160 x 560 x 90		400 x 400 x 120
	125 x 125 x 75		230 x 200 x 110		200 x 500 x 120
	125 x 125 x 100		230 x 200 x 180		300 x 500 x 120
	125 x 125 x 125		230 x 280 x 110		200 x 600 x 80
	125 x 175 x 75		230 x 330 x 110		200 x 600 x 120
	125 x 175 x 100		230 x 330 x 180		300 x 600 x 120
	125 x 175 x 125		230 x 400 x 110		400 x 600 x 120
	125 x 175 x 150		230 x 600 x 110		200 x 800 x 120
	175 x 175 x 75		310 x 402 x 110		400 x 800 x 120
	175 x 175 x 100		310 x 402 x 180		
	175 x 175 x 125		310 x 600 x 110		
	175 x 175 x 150		310 x 600 x 180		
	175 x 250 x 75	Series 17	Enclosures made of Polyester		
	175 x 250 x 100		75 x 80 x 55		
	175 x 250 x 150		75 x 110 x 55		
Series 13	Large Enclosures made of PC / ABS		75 x 160 x 55		
	200 x 200 x 132		75 x 190 x 55		
	200 x 200 x 187	Series 18	Enclosures made of Steel		
	200 x 300 x 132		150 x 150 x 80		
	200 x 300 x 187		150 x 150 x 120		
	200 x 400 x 132		200 x 200 x 80		
	200 x 400 x 187		200 x 200 x 120		
	300 x 300 x 132		150 x 300 x 80		
	300 x 300 x 187		150 x 300 x 120		
	300 x 400 x 132		200 x 300 x 80		
	300 x 400 x 187		200 x 300 x 120		
	300 x 600 x 132		300 x 300 x 120		
	300 x 600 x 187		200 x 400 x 80		
Series 14	Wall mounted Enclosures made of PC		200 x 400 x 120		
	200 x 200 x 132		300 x 400 x 120		
	200 x 200 x 187				
	200 x 300 x 132				
	200 x 300 x 187				
	200 x 400 x 132				



CIRCULAR CONNECTORS



M 12 Power



Circular Connectors M 16



M 23 Fast Ethernet PoE



M 23 Hybrid

// Availability on request
// Subject to technical alterations



Circular Connectors M 23 RJ45



Circular Connectors Signal M 23



Circular Connectors M 27



Circular Connectors Power M 23



Connectors Power Size 1,5 M 40



Connectors INOX

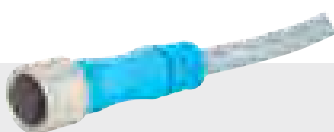
Circular Connectors made
of Stainless Steel (AISI 316)



Circular Connectors Moulded



Connectors Contacts &
Accessories



Metric Connector Series

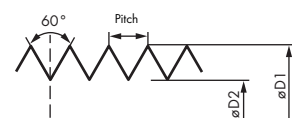


Standard Connector Series

INTERNATIONAL PROTECTION, EN 60529

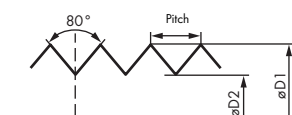
1. Code		2. Code	Penetration of water	Non-protected	protection against dripping water	Protected against vertically falling water drops when device is tilted up to 15°	Water sprayed at an angle up to 60° on either side of the vertical shall have no harmful effects	Water splashed from any direction shall have no harmful effects	Water projected in jets from any direction shall have no harmful effects	Water projected in powerful jets from any direction shall have no harmful effects	protection against temporary submersion	protection against permanent submersion
Protection against human access to hazardous parts	Protection of equipment against penetration of solid foreign objects			IP 0	IP 1	IP 2	IP 3	IP 4	IP 5	IP 6	IP 7	IP 8
Non-protected	Non-protected	IP 0 x		IP 00								
Protected against access to hazardous parts with the back of the hand	Protected against solid foreign objects larger in diameter than 50mm	IP 1 x		IP 10	IP 11	IP 12						
Protected against access to hazardous parts with a finger	Protected against solid foreign object larger in diameter than 12,5mm	IP 2 x		IP 20	IP 21	IP 22	IP 23					
Protected against access to hazardous parts with a tool larger in diameter than 2,5mm	Protected against solid foreign objects larger in diameter than 2,5mm	IP 3 x		IP 30	IP 31	IP 32	IP 33	IP 34				
Protected against access to hazardous parts with a wire larger in diameter than 1,0mm	Protected against solid foreign objects larger in diameter than 1mm	IP 4 x		IP 40	IP 41	IP 42	IP 43	IP 44				
Protected against access to hazardous parts with a wire larger in diameter than 1,0mm	Prevents penetration of dust sufficient to cause damage inside the equipment.	IP 5 x		IP 50				IP 54	IP 55			
Protected against access to hazardous parts with a wire larger in diameter than 1,0mm	Dust proof	IP 6 x		IP 60					IP 65	IP 66	IP 67	IP 68

Metric ISO Thread Specifications



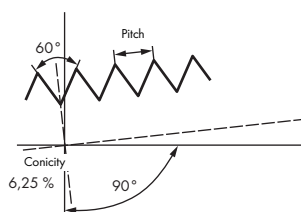
Size	Pitch mm	Outside-Ø (D1) mm	Inside-Ø (D2) mm	Thru-hole mm
M 12 x 1,5	1,5	12	10,38	12,2
M 16 x 1,5	1,5	16	14,38	16,2
M 20 x 1,5	1,5	20	18,38	20,2
M 25 x 1,5	1,5	25	23,38	25,2
M 32 x 1,5	1,5	32	30,38	32,2
M 40 x 1,5	1,5	40	38,38	40,2
M 50 x 1,5	1,5	50	48,38	50,2
M 63 x 1,5	1,5	63	61,38	63,2

PG Thread Specifications



Size	Pitch mm	Outside-Ø (D1) mm	Inside-Ø (D2) mm	Thru-hole mm
PG 7	1,270	12,5	11,28	12,7
PG 9	1,410	15,2	13,86	15,4
PG 11	1,410	18,6	17,26	18,8
PG 13,5	1,410	20,4	19,06	20,7
PG 16	1,410	22,5	21,16	22,8
PG 21	1,588	28,3	26,78	28,6
PG 29	1,588	37,0	35,48	37,4
PG 36	1,588	47,0	45,48	47,5
PG 42	1,588	54,0	52,48	54,5
PG 48	1,588	59,3	57,78	59,8

NPT Thread Specifications



Size	Pitch mm	Outside-Ø mm	Number of pitches n
1/4" NPT	1,411	13,716	18
3/8" NPT	1,411	17,145	18
1/2" NPT	1,814	21,336	14
3/4" NPT	1,814	26,67	14
1" NPT	2,208	33,4	11 1/2
1 1/4" NPT	2,208	42,164	11 1/2
1 1/2" NPT	2,208	48,26	11 1/2
2" NPT	2,208	60,325	11 1/2
2 1/2" NPT	3,175	73,025	8
3" NPT	3,175	88,9	8
3 1/2" NPT	3,175	101,6	8

Product range electric components

CABLE GLANDS

Polyamide-, Brass- and Stainless steel,
EMC-connections, Ex e-, Ex d-, Ex ta-Cable Glands



CIRCULAR CONNECTORS

M 8 to M 40, INOX, TWILOCK, Industrial Ethernet,
Power, Signal, Hybrid-Connector, Moulded Cordsets



INDUSTRIAL ENCLOSURES

Enclosures made of PC, Polyester, Aluminium and Stainless Steel,
Customized Systems, Enclosure-Configurator



CONDUIT SYSTEMS

Corrugated Conduit Systems, Conduit Cable Glands, Angled Systems,
combined Cable Glands, Accessories



CABLE ASSEMBLY

Moulded Signal- and Power Circular Connectors,
Servo Cables, Cable Sets



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