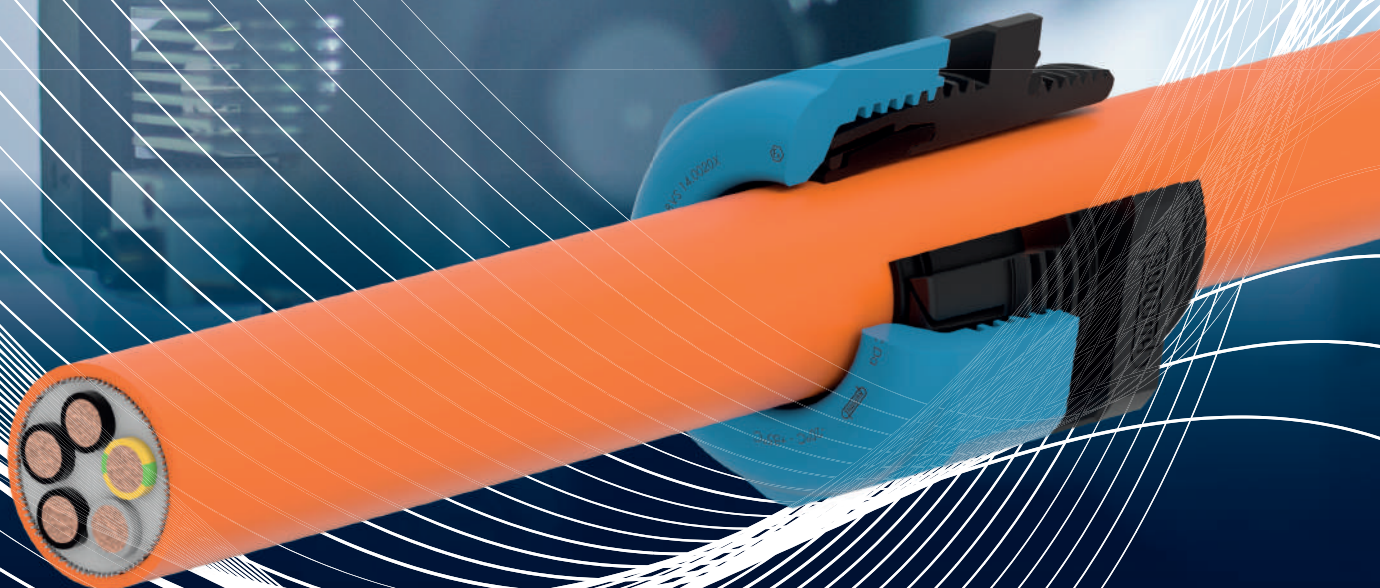


Ex CABLE GLANDS

HUMMEL offers a wide range of cable glands for explosion protection areas. This includes cable glands for ignition protection types Ex d and Ex e. For areas where "Increased Safety" (Ex e) is prescribed, HUMMEL offers plastic and metal cable glands, also with multi or flat cable inserts. Cable glands for ignition type Ex d meet the requirements for "Pressure-tight Encapsulation". This prevents transfer of an explosion in the housing interior to the exterior.

- // HSK-K-Ex-Active, the plastic cable gland for ex-areas
- // Ex e metal cable glands with various inserts
- // Ex d metal cable glands for pressure-tight encapsulation

HUMMEL has many years of experience in handling components for explosion-protection areas. This is why we have a sophisticated range of explosion area products in a range of materials and designs.



Polyamide cable glands for areas at risk of explosion

The cable gland made of specially formulated, fibreglass reinforced polyamide is designed for use on electrical equipment with protection types Ex e and Ex t. It has been developed according to the DIN EN IEC 60079-0, 60079-7 and 60079-31 series of standards and fulfils the current ATEX and IECEx approvals.

- // Free of halogen
- // Protection class IP 68 up to 10 bar
- // Union nut vibration protection
- // Wear-resistant labelling
- // For use in zones 1-2 and zones 20-22

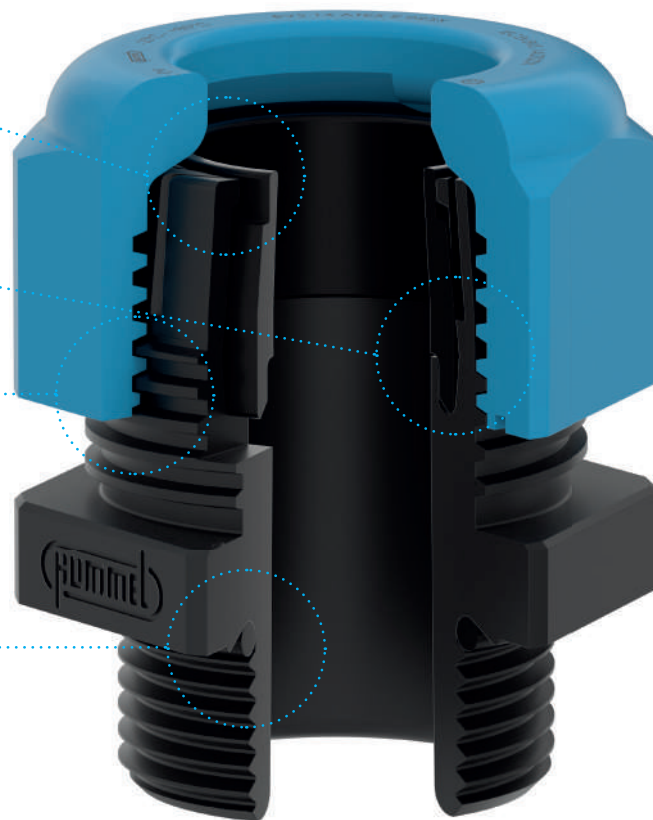
HSK-K-Ex-Active

Overlapping clamping plates guarantee high cable strain relief

The chambered moulded seal securely seals the cable off

The HUMMEL trapezoidal thread guarantees a stable transfer of force

A chambered O-ring reliably seals the cable gland off from the housing



Reliable explosion protection

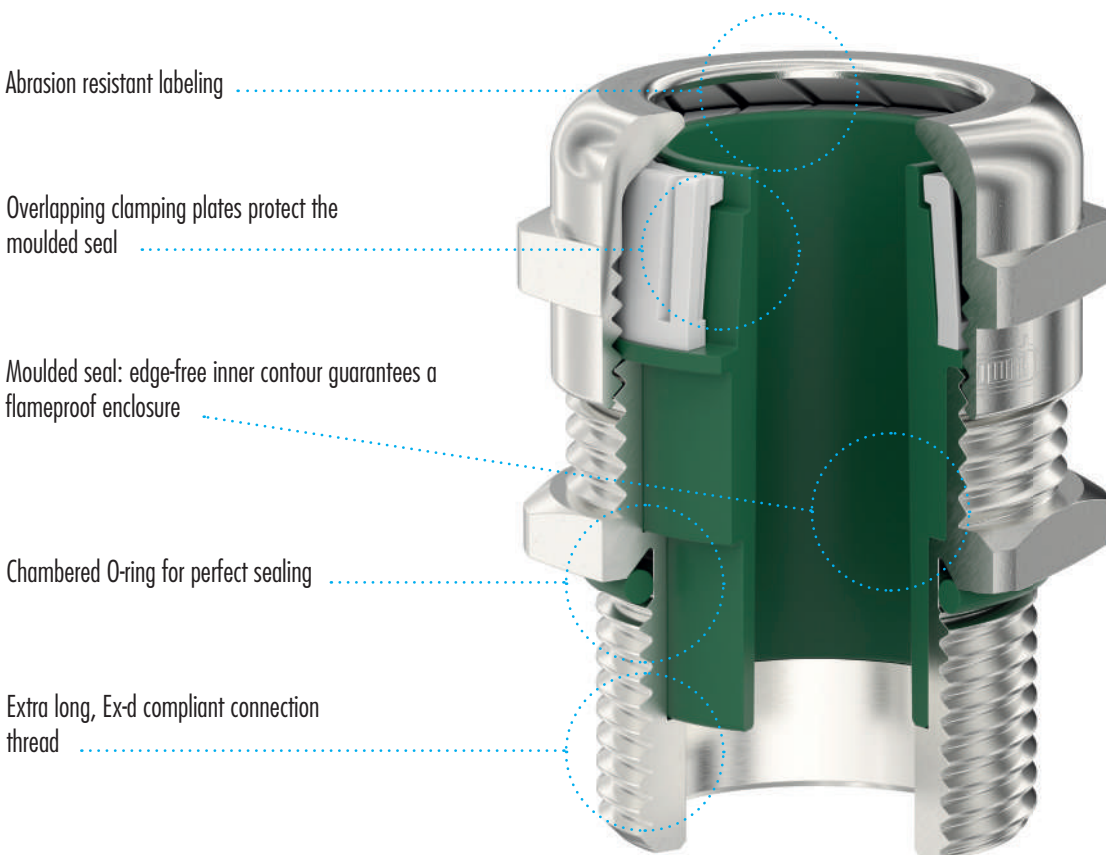
Not all forms of explosion protection are equal. There are different scenarios and areas of application which require different types of explosion protection. Ex cable glands from HUMMEL offer protection in a wide range of environments.

Ex e Increased safety: The cable gland prevents the occurrence of sparks and arcs inside or on external parts of electrical equipment, which do not occur during normal operation.

Ex d Flameproof enclosure: Parts which can ignite an explosive atmosphere are firmly set in an enclosure. The housing withstands the explosion pressure and prevents transmission to the outside.

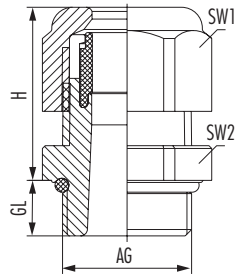
Ex ta Protection against dust: The cable gland prevents dust from entering the housing in accordance with EN IEC 60529.

HSK-M-Ex d



Ex cable glands

HSK-K-Ex-Active (metric/-long)



Material	Polyamide, fiber reinforced
Seal	NBR
Material o-ring	NBR
Protection class	IP 68 – 10 bar
Ex-protection level	II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da / Class I Div 2 Groups A,B,C,D / Class II Div 1 Groups E,F,G
Temperature range	-20°C to +85°C
Colour	black / blue-black
RAL	9005 / 5012

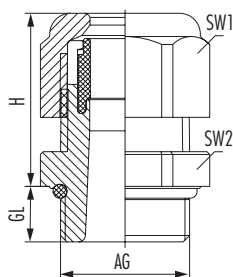
RoHS

AG	∅k mm	H mm	SW1/SW2 mm	⊕ Nm	GL mm	Item-No black short	Item-No blue-black short	GL mm	Item-No black long	Item-No blue-black long
M12 x 1.5	2 – 5	21	15/15	2	8	1.292.1201.51	1.292.1202.51	15	1.292.1201.31	1.292.1202.31
M12 x 1.5	3 – 6.5	21	15/15	1.5	8	1.292.1201.50	1.292.1202.50	15	1.292.1201.30	1.292.1202.30
M16 x 1.5	3 – 6	22	19/19	2	8	1.292.1601.51	1.292.1602.51	15	1.292.1601.31	1.292.1602.31
M16 x 1.5	3 – 7	25	22/22	3	8	1.292.1611.51	1.292.1612.51	15	1.292.1611.31	1.292.1612.31
M16 x 1.5	4 – 8	22	19/19	2	8	1.292.1601.50	1.292.1602.50	15	1.292.1601.30	1.292.1602.30
M16 x 1.5	5 – 10	25	22/22	3	8	1.292.1611.50	1.292.1612.50	15	1.292.1611.30	1.292.1612.30
M20 x 1.5	5 – 9	27	24/24	4.5	9	1.292.2001.51	1.292.2002.51	15	1.292.2001.31	1.292.2002.31
M20 x 1.5	6 – 12	27	24/24	4.5	9	1.292.2001.50	1.292.2002.50	15	1.292.2001.30	1.292.2002.30
M20 x 1.5	7 – 12	28	27/27	4.5	9	1.292.2016.51	1.292.2017.51	15	1.292.2016.31	1.292.2017.31
M20 x 1.5	10 – 14	28	27/27	4.5	9	1.292.2016.50	1.292.2017.50	15	1.292.2016.30	1.292.2017.30
M25 x 1.5	9 – 16	31	33/33	5	11	1.292.2501.51	1.292.2502.51	15	1.292.2501.31	1.292.2502.31
M25 x 1.5	13 – 18	31	33/33	5	11	1.292.2501.50	1.292.2502.50	15	1.292.2501.30	1.292.2502.30
M32 x 1.5	13 – 20	39	42/42	6.5	11	1.292.3201.51	1.292.3202.51	15	1.292.3201.31	1.292.3202.31
M32 x 1.5	18 – 25	39	42/42	6.5	11	1.292.3201.50	1.292.3202.50	15	1.292.3201.30	1.292.3202.30
M40 x 1.5	20 – 26	48	53/53	10	13	1.292.4001.51	1.292.4002.51	18	1.292.4001.31	1.292.4002.31
M40 x 1.5	22 – 32	48	53/53	10	13	1.292.4001.50	1.292.4002.50	18	1.292.4001.30	1.292.4002.30
M50 x 1.5	25 – 31	49	60/60	15	13	1.292.5001.51	1.292.5002.51	18	1.292.5001.31	1.292.5002.31
M50 x 1.5	32 – 38	49	60/60	15	13	1.292.5001.50	1.292.5002.50	18	1.292.5001.30	1.292.5002.30
M63 x 1.5	29 – 35	49	65/68	22	14	1.292.6301.51	1.292.6302.51	18	1.292.6301.31	1.292.6302.31
M63 x 1.5	37 – 44	49	65/68	22	14	1.292.6301.50	1.292.6302.50	18	1.292.6301.30	1.292.6302.30



to the assembly
instruction





Material	Polyamide, fiber reinforced
Seal	NBR
Material o-ring	NBR
Protection class	IP 68 – 10 bar
Ex-protection level	II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da / Class I Div 2 Groups A,B,C,D / Class II Div 1 Groups E,F,G
Temperature range	-20°C to +85°C
Colour	black / blue-black
RAL	9005 / 5012

RoHS

AG	∅k mm	GL mm	H mm	SW1/SW2 mm	⊕ Nm	Item-No black	Item-No blue-black
NPT 3/8"	3 – 6	15	22	19/22	2	1.292.3801.71	1.292.3802.71
NPT 3/8"	4 – 8	15	22	19/22	2	1.292.3801.70	1.292.3802.70
NPT 1/2"	5 – 9	13	27	24/24	4.5	1.292.1201.71	1.292.1202.71
NPT 1/2"	6 – 12	13	27	24/24	4.5	1.292.1201.70	1.292.1202.70
NPT 1/2"	7 – 12	13	28	27/27	4.5	1.292.1216.71	1.292.1217.71
NPT 1/2"	10 – 14	13	28	27/27	4.5	1.292.1216.70	1.292.1217.70
NPT 3/4"	9 – 16	14	31	33/33	5	1.292.3401.71	1.292.3402.71
NPT 3/4"	13 – 18	14	31	33/33	5	1.292.3401.70	1.292.3402.70
NPT 1"	13 – 20	19	39	42/42	6.5	1.292.1001.71	1.292.1002.71
NPT 1"	18 – 25	19	39	42/42	6.5	1.292.1001.70	1.292.1002.70
NPT 1 1/4"	13 – 20	16	39	42/46	6.5	1.292.5401.71	1.292.5402.71
NPT 1 1/4"	18 – 25	16	39	42/46	6.5	1.292.5401.70	1.292.5402.70
NPT 1 1/2"	20 – 26	20	48	53/53	10	1.292.6401.71	1.292.6402.71
NPT 1 1/2"	22 – 32	20	48	53/53	10	1.292.6401.70	1.292.6402.70

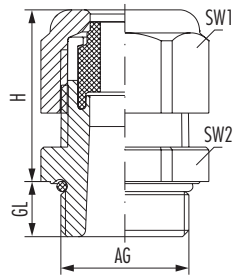


to the assembly
instruction



Ex cable glands

HSK-K-Multi-Ex-Active (metric, NPT)



Material	Polyamide, fiber reinforced
Seal	Elastomer
Material o-ring	NBR
Protection class	IP 68 – 10 bar
Ex-protection level	II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da / Class I Div 2 Groups A,B,C,D / Class II Div 1 Groups E,F,G
Temperature range	-20°C to +85°C
Colour	black / blue-black
RAL	9005 / 5012

RoHS

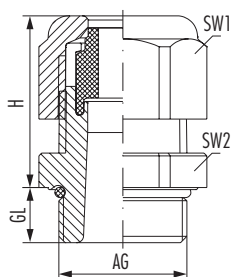
- // Further seal inserts on request
- // Installation note: The cable diameter may be less than the drill diameter by 20%, but not more than 1 mm

AG	GL mm	H mm	SW1/SW2 mm	⊕ Nm	Number of holes x d	Item-No black	Item-No blue-black	Number of holes x d	Item-No black	Item-No blue-black
M12 x 1.5	8	21	15/15	1.5	-	1.581.1299.51				
M16 x 1.5	8	22	19/19	2	2 x 3	1.581.1601.51	1.581.1601.52	4 x 1.4	1.581.1600.51	1.581.1600.52
M20 x 1.5	9	27	24/24	4.5	2 x 5	1.581.2003.51	1.581.2003.52	6 x 3	1.581.2001.51	1.581.2001.52
M25 x 1.5	11	31	33/33	5	3 x 7	1.581.2501.51	1.581.2501.52	4 x 6	1.581.2500.51	1.581.2500.52
M32 x 1.5	11	39	42/42	6.5	4 x 9	1.581.3201.51	1.581.3201.52	6 x 6.5	1.581.3200.51	1.581.3200.52
M40 x 1.5	13	48	53/53	10	2 x 15	1.581.4003.51	1.581.4003.52	7 x 9	1.581.4001.51	1.581.4001.52
M50 x 1.5	13	49	60/60	15	-	1.581.5099.51	1.581.5099.52			
M63 x 1.5	14	49	65/68	22	3 x 18	1.581.6302.51	1.581.6302.52	6 x 12	1.581.6301.51	1.581.6301.52
NPT 3/8"	15	22	19/22	2	2 x 3	1.581.3801.71	1.581.3801.72	4 x 1.4	1.581.3800.71	1.581.3800.72
NPT 1/2"	13	27	24/24	4.5	2 x 5	1.581.1203.71	1.581.1203.72	3 x 4	1.581.1202.71	1.581.1202.72
NPT 1/2"	13	28	27/27	4.5	2 x 6	1.581.1221.71	1.581.1221.72	6 x 4	1.581.1220.71	1.581.1220.72
NPT 3/4"	14	31	33/33	5	3 x 7	1.581.3401.71	1.581.3401.72	4 x 6	1.581.3400.71	1.581.3400.72
NPT 1"	19	39	42/42	6.5	4 x 9	1.581.1001.71	1.581.1001.72	6 x 6.5	1.581.1000.71	1.581.1000.72
NPT 1 1/4"	16	39	42/46	6.5	-	1.581.5499.71	1.581.5499.72			
NPT 1 1/2"	20	48	53/53	10	5 x 9	1.581.6400.71	1.581.6400.72	7 x 9	1.581.6401.71	1.581.6401.72



to the assembly
instruction





Material	Polyamide, fiber reinforced
Seal	Elastomer
Material o-ring	NBR
Protection class	IP 68 – 10 bar
Ex-protection level	II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da / Class I Div 2 Groups A,B,C,D / Class II Div 1 Groups E,F,G
Temperature range	-20°C to +85°C
Colour	black / blue-black
RAL	9005 / 5012

RoHS

- // Further seal inserts on request
- // The cable must not exceed the specified clamping range by more than 1 mm in width and length. Geometries of cable and hole pattern must match (semicircular or straight).

AG	GL mm	H mm	SW1/SW2 mm	⊕ Nm	B x H mm	Item-No black	Item-No blue-black	B x H mm	Item-No black	Item-No blue-black
M20 x 1.5	9	28	27/27	4.5	12 x 7	1.582.2017.51	1.582.2017.52	14 x 6	1.582.2018.51	1.582.2018.52
M25 x 1.5	11	31	33/33	5	14 x 6	1.582.2500.51	1.582.2500.52	14 x 7	1.582.2501.51	1.582.2501.52
M32 x 1.5	11	39	42/42	6.5	22 x 8	1.582.3200.51	1.582.3200.52			
M40 x 1.5	13	48	53/53	10	28.5 x 10	1.582.4000.51	1.582.4000.52	29 x 5.5	1.582.4001.51	1.582.4001.52
M40 x 1.5	13	48	53/53	10	30.5 x 12	1.582.4002.51	1.582.4002.52	31 x 7.5	1.582.4003.51	1.582.4003.52
M50 x 1.5	13	49	60/60	15	33.5 x 11.5	1.582.5000.51	1.582.5000.52			
NPT 1/2"	13	28	27/27	4.5	12 x 7	1.582.1217.71	1.582.1217.72	14 x 6	1.582.1218.71	1.582.1218.72
NPT 3/4"	14	31	33/33	5	14 x 6	1.582.3400.71	1.582.3400.72			
NPT 1"	19	39	42/42	6.5	22 x 8	1.582.1000.71	1.582.1000.72			
NPT 1 1/4"	16	39	42/46	6.5	22 x 8	1.582.5400.71	1.582.5400.72			
NPT 1 1/2"	20	48	53/53	10	28.5 x 10	1.582.6400.71	1.582.6400.72	29 x 5.5	1.582.6401.71	1.582.6401.72
NPT 1 1/2"	20	48	53/53	10	30.5 x 12	1.582.6402.71	1.582.6402.72	31 x 7.5	1.582.6403.71	1.582.6403.72

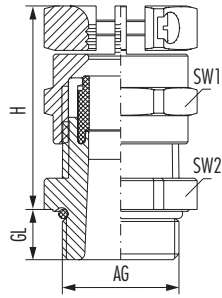


to the assembly
instruction




Ex cable glands

HSK-K-MZ-Ex (metric, PG)



Material	Polyamide
Seal	NBR
Material o-ring	NBR
Protection class	IP 68 – 10 bar / IP 69 K
Ex-protection level	II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da
Temperature range	-20°C to +70°C
Colour	black
RAL	9005

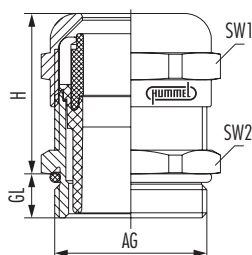
RoHS

AG	∅k mm	GL mm	H mm	SW1/SW2 mm	 Nm	Item-No
M16 x 1.5	4 – 8	15	29	19/19	3	1.215.1601.50
M20 x 1.5	7 – 12	15	35.5	24/24	3.5	1.215.2001.50
M25 x 1.5	13 – 18	11	41	33/33	5	1.215.2501.50
M32 x 1.5	18 – 25	11	49	42/42	6.5	1.215.3201.50
M40 x 1.5	22 – 32	13	58	53/53	10	1.215.4001.50
M50 x 1.5	32 – 38	13	61.5	60/60	15	1.215.5001.50
M63 x 1.5	37 – 44	14	62	65/68	18	1.215.6301.50
PG 9	4 – 8	15	29	19/19	3	1.215.0901.14
PG 11	5 – 10	15	32.5	22/22	3.5	1.215.1101.14
PG 13.5	7 – 12	15	35.5	24/24	3.5	1.215.1301.14
PG 16	10 – 14	10	37.5	27/27	5	1.215.1601.14
PG 21	13 – 18	11	41	33/33	5	1.215.2101.14
PG 29	18 – 25	11	49	42/42	6.5	1.215.2901.14
PG 36	22 – 32	13	58	53/53	10	1.215.3601.14
PG 42	32 – 38	13	61.5	60/60	15	1.215.4201.14
PG 48	37 – 44	14	62	65/65	18	1.215.4801.14



to the assembly
instruction





Material	Nickel-plated brass
Clamping insert	Polyamide VO according to UL 94
Seal	NBR
Material o-ring	NBR
Protection class	IP 68 – 10 bar / IP 69 K
Ex-protection level	II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da
NEMA type rating	4 / 4X / 6
Temperature range	-20°C to +95°C / -60°C to +95°C

RoHS

AG	∅k mm	GL mm	H mm	SW1/SW2 mm	⊕ Nm	Item-No -20°C to +95°C	Item-No -60°C to +95°C
M12 x 1.5	2 – 5	6.5	19	14/14	4	1.610.1200.51	1.640.1200.51
M12 x 1.5	3 – 6.5	6.5	19	14/14	4	1.610.1200.50	1.640.1200.50
M16 x 1.5	2 – 6	6	21	17/19	6	1.610.1600.51	1.640.1600.51
M16 x 1.5	3 – 7	6	22	20/20	5	1.610.1611.51	1.640.1611.51
M16 x 1.5	4 – 8	6	21	17/19	6	1.610.1600.50	1.640.1600.50
M16 x 1.5	5 – 10	6	22	20/20	5	1.610.1611.50	1.640.1611.50
M20 x 1.5	5 – 9	6	23	22/22	8	1.610.2000.51	1.640.2000.51
M20 x 1.5	6 – 12	6	23	22/22	8	1.610.2000.50	1.640.2000.50
M20 x 1.5	7 – 12	6	24	24/24	10	1.610.2016.51	1.640.2016.51
M20 x 1.5	10 – 14	6	24	24/24	10	1.610.2016.50	1.640.2016.50
M25 x 1.5	10 – 16	7	26	30/30	12	1.610.2500.51	1.640.2500.51
M25 x 1.5	14 – 18	7	26	30/30	12	1.610.2500.50	1.640.2500.50
M32 x 1.5	13 – 20	8	31	40/40	15	1.610.3200.51	1.640.3200.51
M32 x 1.5	20 – 25	8	31	40/40	15	1.610.3200.50	1.640.3200.50
M40 x 1.5	20 – 26	8	37	50/50	15	1.610.4000.51	1.640.4000.51
M40 x 1.5	22 – 32	8	37	50/50	15	1.610.4000.50	1.640.4000.50
M50 x 1.5	25 – 31	9	37	57/57	24	1.610.5000.51	1.640.5000.51
M50 x 1.5	32 – 38	9	37	57/57	24	1.610.5000.50	1.640.5000.50
M63 x 1.5	29 – 35	10	38	64/68	30	1.610.6300.51	1.640.6300.51
M63 x 1.5	37 – 44	10	38	64/68	30	1.610.6300.50	1.640.6300.50

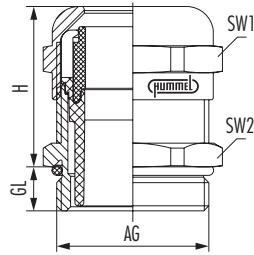


to the assembly instruction



Ex cable glands

HSK-M Ex (metric-long)



Material	Nickel-plated brass
Clamping insert	Polyamide VO according to UL 94
Seal	NBR
Material o-ring	NBR
Protection class	IP 68 – 10 bar / IP 69 K
Ex-protection level	II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da
NEMA type rating	4 / 4X / 6
Temperature range	-20°C to +95°C / -60°C to +95°C

RoHS

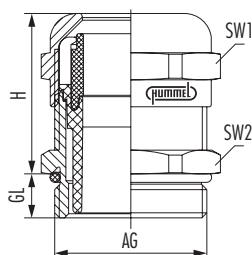
AG	∅k mm	GL mm	H mm	SW1/SW2 mm	⊕ Nm	Item-No -20°C to +95°C	Item-No -60°C to +95°C
M12 x 1.5	2 – 5	10	19	14/14	4	1.610.1200.31	1.640.1200.31
M12 x 1.5	3 – 6.5	10	19	14/14	4	1.610.1200.30	1.640.1200.30
M16 x 1.5	2 – 6	10	21	17/19	6	1.610.1600.31	1.640.1600.31
M16 x 1.5	3 – 7	10	22	20/20	5	1.610.1611.31	1.640.1611.31
M16 x 1.5	4 – 8	10	21	17/19	6	1.610.1600.30	1.640.1600.30
M16 x 1.5	5 – 10	10	22	20/20	5	1.610.1611.30	1.640.1611.30
M20 x 1.5	5 – 9	10	23	22/22	8	1.610.2000.31	1.640.2000.31
M20 x 1.5	6 – 12	10	23	22/22	8	1.610.2000.30	1.640.2000.30
M20 x 1.5	7 – 12	10	24	24/24	10	1.610.2016.31	1.640.2016.31
M20 x 1.5	10 – 14	10	24	24/24	10	1.610.2016.30	1.640.2016.30
M25 x 1.5	10 – 16	12	26	30/30	12	1.610.2500.31	1.640.2500.31
M25 x 1.5	14 – 18	12	26	30/30	12	1.610.2500.30	1.640.2500.30
M32 x 1.5	13 – 20	12	31	40/40	15	1.610.3200.31	1.640.3200.31
M32 x 1.5	20 – 25	12	31	40/40	15	1.610.3200.30	1.640.3200.30
M40 x 1.5	20 – 26	15	37	50/50	15	1.610.4000.31	1.640.4000.31
M40 x 1.5	22 – 32	15	37	50/50	15	1.610.4000.30	1.640.4000.30
M50 x 1.5	25 – 31	15	37	57/57	24	1.610.5000.31	1.640.5000.31
M50 x 1.5	32 – 38	15	37	57/57	24	1.610.5000.30	1.640.5000.30
M63 x 1.5	29 – 35	15	38	64/68	30	1.610.6300.31	1.640.6300.31
M63 x 1.5	37 – 44	15	38	64/68	30	1.610.6300.30	1.640.6300.30



to the assembly
instruction



ATEX Ex



Material	Nickel-plated brass
Clamping insert	Polyamide VO according to UL 94
Seal	NBR
Material o-ring	NBR
Protection class	IP 68 – 10 bar / IP 69 K
Ex-protection level	II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da
NEMA type rating	4 / 4X / 6
Temperature range	-20°C to +95°C / -60°C to +95°C

RoHS

AG	∅k mm	GL mm	H mm	SW1/SW2 mm	⊕ Nm	Item-No -20°C to +95°C	Item-No -60°C to +95°C
PG 7	2 – 5	5	19	14/14	4	1.610.0700.15	1.640.0700.15
PG 7	3 – 6.5	5	19	14/14	4	1.610.0700.01	1.640.0700.01
PG 9	2 – 6	6	21	17/17	6	1.610.0900.15	1.640.0900.15
PG 9	4 – 8	6	21	17/17	6	1.610.0900.01	1.640.0900.01
PG 11	3 – 7	6	22	20/20	5	1.610.1100.15	1.640.1100.15
PG 11	5 – 10	6	22	20/20	5	1.610.1100.01	1.640.1100.01
PG 13.5	5 – 9	6.5	24	22/22	8	1.610.1300.15	1.640.1300.15
PG 13.5	6 – 12	6.5	24	22/22	8	1.610.1300.01	1.640.1300.01
PG 16	7 – 12	6.5	23	24/24	10	1.610.1600.15	1.640.1600.15
PG 16	10 – 14	6.5	23	24/24	10	1.610.1600.01	1.640.1600.01
PG 21	10 – 16	7	24	30/30	12	1.610.2100.15	1.640.2100.15
PG 21	14 – 18	7	24	30/30	12	1.610.2100.01	1.640.2100.01
PG 29	13 – 20	8	29	40/40	15	1.610.2900.15	1.640.2900.15
PG 29	20 – 25	8	29	40/40	15	1.610.2900.01	1.640.2900.01
PG 36	20 – 26	8	35	50/50	15	1.610.3600.15	1.640.3600.15
PG 36	22 – 32	8	35	50/50	15	1.610.3600.01	1.640.3600.01
PG 42	25 – 31	9	37	57/57	24	1.610.4200.15	1.640.4200.15
PG 42	32 – 38	9	37	57/57	24	1.610.4200.01	1.640.4200.01
PG 48	29 – 35	10	38	64/64	30	1.610.4800.15	1.640.4800.15
PG 48	37 – 44	10	38	64/64	30	1.610.4800.01	1.640.4800.01



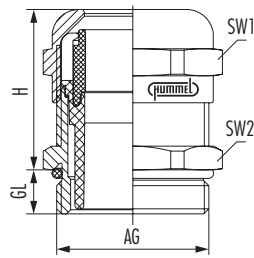
to the assembly instruction



ATEX Ex

Ex cable glands

HSK-M-Ex (PG long)



Material	Nickel-plated brass
Clamping insert	Polyamide VO according to UL 94
Seal	NBR
Material o-ring	NBR
Protection class	IP 68 – 10 bar / IP 69 K
Ex-protection level	II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da
NEMA type rating	4 / 4X / 6
Temperature range	-20°C to +95°C / -60°C to +95°C

RoHS

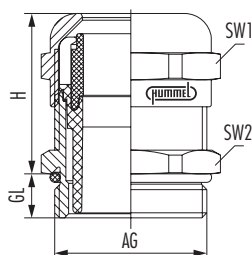
AG	∅k mm	GL mm	H mm	SW1/SW2 mm	⊕ Nm	Item-No -20°C to +95°C	Item-No -60°C to +95°C
PG 7	2 – 5	10	19	14/14	4	1.610.0700.61	1.640.0700.61
PG 7	3 – 6.5	10	19	14/14	4	1.610.0700.60	1.640.0700.60
PG 9	2 – 6	10	21	17/17	6	1.610.0900.61	1.640.0900.61
PG 9	4 – 8	10	21	17/17	6	1.610.0900.60	1.640.0900.60
PG 11	3 – 7	10	22	20/20	5	1.610.1100.61	1.640.1100.61
PG 11	5 – 10	10	22	20/20	5	1.610.1100.60	1.640.1100.60
PG 13.5	5 – 9	10	24	22/22	8	1.610.1300.61	1.640.1300.61
PG 13.5	6 – 12	10	24	22/22	8	1.610.1300.60	1.640.1300.60
PG 16	7 – 12	10	23	24/24	10	1.610.1600.61	1.640.1600.61
PG 16	10 – 14	10	23	24/24	10	1.610.1600.60	1.640.1600.60
PG 21	10 – 16	12	24	30/30	12	1.610.2100.61	1.640.2100.61
PG 21	14 – 18	12	24	30/30	12	1.610.2100.60	1.640.2100.60
PG 29	13 – 20	12	29	40/40	15	1.610.2900.61	1.640.2900.61
PG 29	20 – 25	12	29	40/40	15	1.610.2900.60	1.640.2900.60
PG 36	20 – 26	15	35	50/50	15	1.610.3600.61	1.640.3600.61
PG 36	22 – 32	15	35	50/50	15	1.610.3600.60	1.640.3600.60
PG 42	25 – 31	15	37	57/57	24	1.610.4200.61	1.640.4200.61
PG 42	32 – 38	15	37	57/57	24	1.610.4200.60	1.640.4200.60
PG 48	29 – 35	15	38	64/64	30	1.610.4800.61	1.640.4800.61
PG 48	37 – 44	15	38	64/64	30	1.610.4800.60	1.640.4800.60



to the assembly
instruction



ATEX^{Ex}



Material	Nickel-plated brass
Clamping insert	Polyamide V0 according to UL 94
Seal	NBR
Material o-ring	NBR
Protection class	IP 68 – 10 bar / IP 69 K
Ex-protection level	II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da
NEMA type rating	4 / 4X / 6
Temperature range	-20°C to +95°C / -60°C to +95°C

RoHS

AG	∅k mm	GL mm	H mm	SW1/SW2 mm	⊕ Nm	Item-No -20°C to +95°C	Item-No -60°C to +95°C
NPT 3/8"	2 – 6	15	21	17/19	6	1.610.3800.71	1.640.3800.71
NPT 3/8"	4 – 8	15	21	17/19	6	1.610.3800.70	1.640.3800.70
NPT 1/2"	5 – 9	13	24	22/24	8	1.610.1200.71	1.640.1200.71
NPT 1/2"	6 – 12	13	24	22/24	8	1.610.1200.70	1.640.1200.70
NPT 3/4"	10 – 16	13	25	30/30	12	1.610.3400.71	1.640.3400.71
NPT 3/4"	14 – 18	13	25	30/30	12	1.610.3400.70	1.640.3400.70
NPT 1"	13 – 20	19	29	40/40	15	1.610.1000.71	1.640.1000.71
NPT 1"	20 – 25	19	29	40/40	15	1.610.1000.70	1.640.1000.70



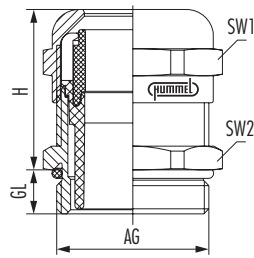
to the assembly
instruction



ATEX Ex

Ex cable glands

HSK-M-PVDF-Ex (metric/-long)



Material	Nickel-plated brass
Clamping insert	PVDF
Seal	FKM
Material o-ring	FKM
Protection class	IP 68 – 10 bar / IP 69 K
Ex-protection level	II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da
NEMA type rating	4 / 4X / 6
Temperature range	-20°C to +130°C

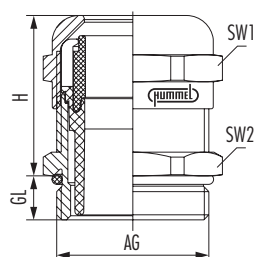
RoHS

AG	∅k mm	H mm	SW1/SW2 mm	⊕ Nm	GL mm	Item-No short	GL mm	Item-No long
M12 x 1.5	2 – 5	19	14/14	4	6.5	1.660.1200.51	10	1.660.1200.31
M12 x 1.5	3 – 6.5	19	14/14	4	6.5	1.660.1200.50	10	1.660.1200.30
M16 x 1.5	2 – 6	21	17/19	6	6	1.660.1600.51	10	1.660.1600.31
M16 x 1.5	3 – 7	22	20/20	5	6	1.660.1611.51	10	1.660.1611.31
M16 x 1.5	4 – 8	21	17/19	6	6	1.660.1600.50	10	1.660.1600.30
M16 x 1.5	5 – 10	22	20/20	5	6	1.660.1611.50	10	1.660.1611.30
M20 x 1.5	5 – 9	23	22/22	8	6	1.660.2000.51	10	1.660.2000.31
M20 x 1.5	6 – 12	23	22/22	8	6	1.660.2000.50	10	1.660.2000.30
M20 x 1.5	7 – 12	24	24/24	10	6	1.660.2016.51	10	1.660.2016.31
M20 x 1.5	10 – 14	24	24/24	10	6	1.660.2016.50	10	1.660.2016.30
M25 x 1.5	10 – 16	26	30/30	12	7	1.660.2500.51	12	1.660.2500.31
M25 x 1.5	14 – 18	26	30/30	12	7	1.660.2500.50	12	1.660.2500.30
M32 x 1.5	13 – 20	31	40/40	15	8	1.660.3200.51	12	1.660.3200.31
M32 x 1.5	20 – 25	31	40/40	15	8	1.660.3200.50	12	1.660.3200.30
M40 x 1.5	20 – 26	37	50/50	15	8	1.660.4000.51	15	1.660.4000.31
M40 x 1.5	22 – 32	37	50/50	15	8	1.660.4000.50	15	1.660.4000.30



to the assembly
instruction





Material	Nickel-plated brass
Clamping insert	PVDF
Seal	FKM
Material o-ring	FKM
Protection class	IP 68 – 10 bar / IP 69 K
Ex-protection level	II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da
NEMA type rating	4 / 4X / 6
Temperature range	-20°C to +130°C

RoHS

AG	∅k mm	H mm	SW1/SW2 mm	⊕ Nm	GL mm	Item-No short	GL mm	Item-No long
PG 7	2 – 5	19	14/14	4	5	1.660.0700.15	10	1.660.0700.61
PG 7	3 – 6.5	19	14/14	4	5	1.660.0700.01	10	1.660.0700.60
PG 9	2 – 6	21	17/17	6	6	1.660.0900.15	10	1.660.0900.61
PG 9	4 – 8	21	17/17	6	6	1.660.0900.01	10	1.660.0900.60
PG 11	3 – 7	22	20/20	5	6	1.660.1100.15	10	1.660.1100.61
PG 11	5 – 10	22	20/20	5	6	1.660.1100.01	10	1.660.1100.60
PG 13.5	5 – 9	24	22/22	8	6.5	1.660.1300.15	10	1.660.1300.61
PG 13.5	6 – 12	24	22/22	8	6.5	1.660.1300.01	10	1.660.1300.60
PG 16	7 – 12	23	24/24	10	6.5	1.660.1600.15	10	1.660.1600.61
PG 16	10 – 14	23	24/24	10	6.5	1.660.1600.01	10	1.660.1600.60
PG 21	10 – 16	24	30/30	12	7	1.660.2100.15	12	1.660.2100.61
PG 21	14 – 18	24	30/30	12	7	1.660.2100.01	12	1.660.2100.60
PG 29	13 – 20	29	40/40	15	8	1.660.2900.15	12	1.660.2900.61
PG 29	20 – 25	29	40/40	15	8	1.660.2900.01	12	1.660.2900.60
PG 36	20 – 26	35	50/50	15	8	1.660.3600.15	15	1.660.3600.61
PG 36	22 – 32	35	50/50	15	8	1.660.3600.01	15	1.660.3600.60
PG 42	25 – 31	37	57/57	24	9	1.660.4200.15	15	1.660.4200.61
PG 42	32 – 38	37	57/57	24	9	1.660.4200.01	15	1.660.4200.60
PG 48	29 – 35	38	64/64	30	10	1.660.4800.15	15	1.660.4800.61
PG 48	37 – 44	38	64/64	30	10	1.660.4800.01	15	1.660.4800.60

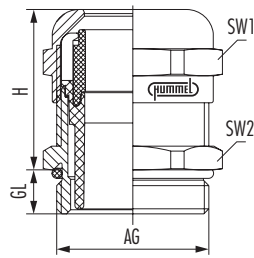


to the assembly instruction



Ex cable glands

HSK-M-PVDF-Ex (NPT)



Material	Nickel-plated brass
Clamping insert	PVDF
Seal	FKM
Material o-ring	FKM
Protection class	IP 68 – 10 bar / IP 69 K
Ex-protection level	II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da
NEMA type rating	4 / 4X / 6
Temperature range	-20°C to +130°C

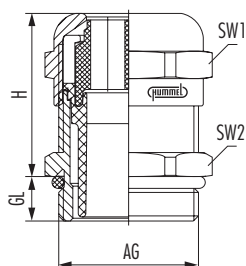
RoHS

AG	∅k mm	GL mm	H mm	SW1/SW2 mm	⌀ Nm	Item-No
NPT 3/8"	2 – 6	15	21	17/19	6	1.660.3800.71
NPT 3/8"	4 – 8	15	21	17/19	6	1.660.3800.70
NPT 1/2"	5 – 9	13	24	22/24	8	1.660.1200.71
NPT 1/2"	6 – 12	13	24	22/24	8	1.660.1200.70
NPT 3/4"	10 – 16	13	25	30/30	12	1.660.3400.71
NPT 3/4"	14 – 18	13	25	30/30	12	1.660.3400.70



to the assembly
instruction





Material	Nickel-plated brass
Clamping insert	Polyamide VO according to UL 94
Seal	Elastomer
Material o-ring	NBR
Protection class	IP 68
Ex-protection level	II 2G Ex eb IIC Gb / II TD Ex ta IIIC Da
Temperature range	-20°C to +95°C

RoHS

// Further seal inserts on request

AG	GL mm	H mm	SW1/SW2 mm	⊙ Nm	Number of holes x d	Item-No	Number of holes x d	Item-No
M16 x 1.5	6	21	17/19	5	2 x 3	1.687.1601.50	4 x 1.4	1.687.1600.50
M20 x 1.5	6	23	22/22	8	2 x 5	1.687.2003.50	6 x 3	1.687.2001.50
M25 x 1.5	7	26	30/30	12	3 x 7	1.687.2501.50	4 x 6	1.687.2500.50
M32 x 1.5	8	31	40/40	15	4 x 9	1.687.3201.50	6 x 6.5	1.687.3200.50
M40 x 1.5	8	37	50/50	15	2 x 15	1.687.4003.50	7 x 9	1.687.4001.50
M50 x 1.5	9	37	57/57	24	-	1.687.5099.50	-	-
M63 x 1.5	10	38	64/68	30	3 x 18	1.687.6302.50	6 x 12	1.687.6301.50
PG 9	6	21	17/17	5	2 x 3	1.687.0901.01	4 x 1.4	1.687.0900.01
PG 11	6	22	20/20	6	2 x 4	1.687.1102.01	3 x 3	1.687.1101.01
PG 13.5	6.5	24	22/22	8	2 x 5	1.687.1303.01	3 x 4	1.687.1302.01
PG 16	6.5	23	24/24	10	2 x 6	1.687.1605.01	3 x 5.6	1.687.1606.01
PG 16	6.5	23	24/24	10	4 x 4	1.687.1602.01	6 x 4	1.687.1604.01
PG 21	7	24	30/30	12	3 x 7	1.687.2101.01	4 x 6	1.687.2100.01
PG 29	8	29	40/40	15	4 x 9	1.687.2901.01	6 x 6.5	1.687.2900.01
PG 36	8	35	50/50	15	2 x 15	1.687.3603.01	7 x 9	1.687.3601.01
PG 48	10	38	64/64	30	3 x 18	1.687.4802.01	6 x 12	1.687.4801.01
NPT 3/8"	15	21	17/19	5	2 x 3	1.687.3801.70	4 x 1.4	1.687.3800.70
NPT 1/2"	13	24	24/24	8	2 x 5	1.687.1203.70	3 x 4	1.687.1220.70
NPT 3/4"	13	25	30/30	12	3 x 7	1.687.3401.70	4 x 6	1.687.3400.70
NPT 1"	19	29	40/40	15	4 x 9	1.687.1001.70	6 x 6.5	1.687.1000.70

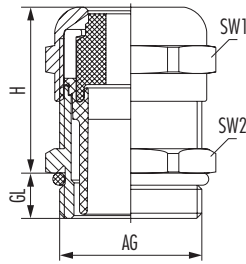


to the assembly
instruction



Ex cable glands

HSK-M-Flaka-Ex (metric, PG, NPT)



Material	Nickel-plated brass
Clamping insert	Polyamide VO according to UL 94
Seal	Elastomer
Material o-ring	NBR
Protection class	IP 65 / IP 68 – 10 bar and optimum assignment of all bores
Ex-protection level	II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da
Temperature range	-20°C to +95°C

RoHS

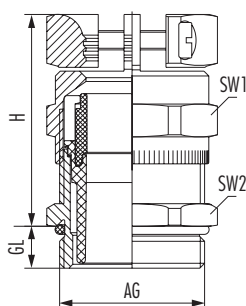
// Further seal inserts on request

AG	GL mm	H mm	SW1/SW2 mm	⊕ Nm	B x H mm	Item-No	B x H mm	Item-No
M20 x 1.5	6	24	24/24	10	12 x 7	1.689.2017.50	14 x 6	1.689.2018.50
M25 x 1.5	7	26	30/30	12	14 x 6	1.689.2500.50	14 x 7	1.689.2501.50
M32 x 1.5	8	31	40/40	15	22 x 8	1.689.3200.50		
M40 x 1.5	8	37	50/50	15	28.5 x 10	1.689.4000.50	29 x 5.5	1.689.4001.50
M40 x 1.5	8	37	50/50	15	30.5 x 12	1.689.4002.50	31 x 7.5	1.689.4003.50
M50 x 1.5	9	37	57/57	24	33.5 x 11.5	1.689.5000.50		
M63 x 1.5	10	38	64/68	30	38 x 12	1.689.6300.50		
PG 16	6.5	23	24/24	10	12 x 7	1.689.1601.01	14 x 6	1.689.1602.01
PG 21	7	24	30/30	12	14 x 7	1.689.2101.01	14 x 6	1.689.2100.01
PG 29	8	29	40/40	15	22 x 8	1.689.2900.01		
PG 36	8	35	50/50	15	28.5 x 10	1.689.3600.01	29 x 5.5	1.689.3601.01
PG 36	8	35	50/50	15	30.5 x 12	1.689.3602.01	31 x 7.5	1.689.3603.01
PG 42	9	37	57/57	24	33.5 x 11.5	1.689.4200.01		
PG 48	10	38	64/64	30	38 x 12	1.689.4802.01		
NPT 3/4"	13	25	30/30	12	14 x 7	1.689.3401.70	14 x 6	1.689.3400.70
NPT 1"	19	29	40/40	15	22 x 8	1.689.1000.70		



to the assembly
instruction





Material	Nickel-plated brass
Clamping insert	Polyamide V0 according to UL 94 / PVDF
Seal	NBR / FKM
Material o-ring	NBR / FKM
Protection class	IP 68 – 10 bar / IP 69 K
Ex-protection level	II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da
NEMA type rating	4 / 4X / 6
Temperature range	-20°C to +95°C / -60°C to +95°C / -20°C to +130°C

RoHS

AG	∅k mm	GL mm	H mm	SW1/SW2 mm	⊕ Nm	Item-No -20°C to +95°C	Item-No -20°C to +130°C	Item-No -60°C to +95°C
M12 x 1.5	3 – 6.5	6.5	26	14/14	4	1.611.1200.50	1.661.1200.50	1.641.1200.50
M16 x 1.5	4 – 8	6	28	17/19	6	1.611.1600.50	1.661.1600.50	1.641.1600.50
M16 x 1.5	5 – 10	6	30	20/20	5	1.611.1611.50	1.661.1611.50	1.641.1611.50
M20 x 1.5	7 – 12	6	33	22/22	10	1.611.2000.50	1.661.2000.50	1.641.2000.50
M20 x 1.5	10 – 14	6	33	24/24	10	1.611.2016.50	1.661.2016.50	1.641.2016.50
M25 x 1.5	14 – 18	7	37	30/30	12	1.611.2500.50	1.661.2500.50	1.641.2500.50
M32 x 1.5	20 – 25	8	43	40/40	15	1.611.3200.50	1.661.3200.50	1.641.3200.50
M40 x 1.5	24 – 32	8	50	50/50	15	1.611.4000.50	1.661.4000.50	1.641.4000.50
M50 x 1.5	32 – 38	9	51	57/57	24	1.611.5000.50		1.641.5000.50
M63 x 1.5	37 – 44	10	52	64/68	30	1.611.6300.50		1.641.6300.50
PG 7	3 – 6.5	5	26	14/14	4	1.611.0700.01	1.661.0700.01	1.641.0700.01
PG 9	4 – 8	6	28	17/17	6	1.611.0900.01	1.661.0900.01	1.641.0900.01
PG 11	5 – 10	6	30	20/20	5	1.611.1100.01	1.661.1100.01	1.641.1100.01
PG 13.5	7 – 12	6	33	22/22	8	1.611.1300.01	1.661.1300.01	1.641.1300.01
PG 16	10 – 14	6	33	24/24	10	1.611.1600.01	1.661.1600.01	1.641.1600.01
PG 21	13 – 18	7	37	30/30	12	1.611.2100.01	1.661.2100.01	1.641.2100.01
PG 29	20 – 25	8	43	40/40	15	1.611.2900.01	1.661.2900.01	1.641.2900.01
PG 36	24 – 32	8	50	50/50	15	1.611.3600.01	1.661.3600.01	1.641.3600.01
PG 42	32 – 38	9	51	57/57	24	1.611.4200.01	1.661.4200.01	1.641.4200.01
PG 48	37 – 44	10	52	64/64	30	1.611.4800.01	1.661.4800.01	1.641.4800.01
NPT 3/8"	4 – 8	15	28	17/19	6	1.611.3800.70	1.661.3800.70	1.641.3800.70
NPT 1/2"	7 – 12	13	33	22/24	8	1.611.1200.70	1.661.1200.70	1.641.1200.70
NPT 3/4"	13 – 18	13	37	30/30	12	1.611.3400.70	1.661.3400.70	1.641.3400.70
NPT 1"	20 – 25	19	43	40/40	15	1.611.1000.70		1.641.1000.70



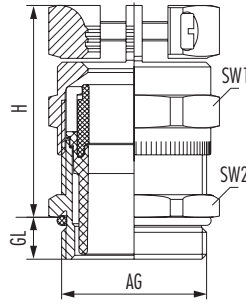
to the assembly
instruction



ATEX Ex


Ex cable glands

HSK-MZ-PVDF-Ex (metric, PG, NPT)



Material	Nickel-plated brass
Clamping insert	PVDF
Seal	FKM
Material o-ring	FKM
Protection class	IP 68 – 10 bar / IP 69 K
Ex-protection level	II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da
NEMA type rating	4 / 4X / 6
Temperature range	-20°C to +130°C

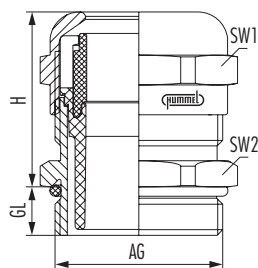
RoHS

AG	∅k mm	GL mm	H mm	SW1/SW2 mm	 Nm	Item-No
M12 x 1.5	3 – 6.5	6.5	26	14/14	4	1.661.1200.50
M16 x 1.5	4 – 8	6	28	17/19	6	1.661.1600.50
M16 x 1.5	5 – 10	6	30	20/20	5	1.661.1611.50
M20 x 1.5	7 – 12	6	33	22/22	10	1.661.2000.50
M20 x 1.5	10 – 14	6	33	24/24	10	1.661.2016.50
M25 x 1.5	14 – 18	7	37	30/30	12	1.661.2500.50
M32 x 1.5	20 – 25	8	43	40/40	15	1.661.3200.50
M40 x 1.5	24 – 32	8	50	50/50	15	1.661.4000.50
PG 7	3 – 6.5	5	26	14/14	4	1.661.0700.01
PG 9	4 – 8	6	28	17/17	6	1.661.0900.01
PG 11	5 – 10	6	30	20/20	5	1.661.1100.01
PG 13.5	7 – 12	6	33	22/22	8	1.661.1300.01
PG 16	10 – 14	6	33	24/24	10	1.661.1600.01
PG 21	13 – 18	7	37	30/30	12	1.661.2100.01
PG 29	20 – 25	8	43	40/40	15	1.661.2900.01
PG 36	24 – 32	8	50	50/50	15	1.661.3600.01
PG 42	32 – 38	9	51	57/57	24	1.661.4200.01
PG 48	37 – 44	10	52	64/64	30	1.661.4800.01
NPT 3/8"	4 – 8	15	28	17/19	6	1.661.3800.70
NPT 1/2"	7 – 12	13	33	22/24	8	1.661.1200.70
NPT 3/4"	13 – 18	13	37	30/30	12	1.661.3400.70



to the assembly instruction





Material	INOX 1.4305
Clamping insert	Polyamide VO according to UL 94
Seal	NBR
Material o-ring	NBR
Protection class	IP 68 – 10 bar / IP 69 K
Ex-protection level	II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da
NEMA type rating	4 / 4X / 6
Temperature range	-20°C to +95°C / -60°C to +95°C

RoHS

AG	∅k mm	GL mm	H mm	SW1/SW2 mm	⊕ Nm	Item-No -20°C to +95°C	Item-No -60°C to +95°C
M12 x 1.5	2 – 5	6.5	19	14/14	4	1.612.1200.51	1.642.1200.51
M12 x 1.5	3 – 6.5	6.5	19	14/14	4	1.612.1200.50	1.642.1200.50
M16 x 1.5	3 – 7	6	22	22/22	5	1.612.1600.51	1.642.1600.51
M16 x 1.5	5 – 10	6	22	22/22	5	1.612.1600.50	1.642.1600.50
M20 x 1.5	7 – 12	6	23	24/24	10	1.612.2000.51	1.642.2000.51
M20 x 1.5	10 – 14	6	23	24/24	10	1.612.2000.50	1.642.2000.50
M25 x 1.5	9 – 16	7	24	30/30	12	1.612.2500.51	1.642.2500.51
M25 x 1.5	13 – 18	7	24	30/30	12	1.612.2500.50	1.642.2500.50
M32 x 1.5	13 – 20	8	29	41/41	15	1.612.3200.51	1.642.3200.51
M32 x 1.5	20 – 25	8	29	41/41	15	1.612.3200.50	1.642.3200.50
M40 x 1.5	20 – 26	8	35	50/50	15	1.612.4000.51	1.642.4000.51
M40 x 1.5	22 – 32	8	35	50/50	15	1.612.4000.50	1.642.4000.50
PG 7	2 – 5	5	19	14/14	4	1.612.0700.15	1.642.0700.15
PG 7	3 – 6.5	5	19	14/14	4	1.612.0700.01	1.642.0700.01
PG 9	2 – 6	6	21	17/17	6	1.612.0900.15	1.642.0900.15
PG 9	4 – 8	6	21	17/17	6	1.612.0900.01	1.642.0900.01
PG 11	3 – 7	6	22	22/22	5	1.612.1100.15	1.642.1100.15
PG 11	5 – 10	6	22	22/22	5	1.612.1100.01	1.642.1100.01
PG 13.5	5 – 9	6	24	22/22	8	1.612.1300.15	1.642.1300.15
PG 13.5	7 – 12	6	24	22/22	8	1.612.1300.01	1.642.1300.01
PG 16	7 – 12	6	23	24/24	10	1.612.1600.15	1.642.1600.15
PG 16	10 – 14	6	23	24/24	10	1.612.1600.01	1.642.1600.01
PG 21	9 – 16	7	24	30/30	12	1.612.2100.15	1.642.2100.15
PG 21	13 – 18	7	24	30/30	12	1.612.2100.01	1.642.2100.01
PG 29	13 – 20	8	29	41/41	15	1.612.2900.15	1.642.2900.15
PG 29	20 – 25	8	29	41/41	15	1.612.2900.01	1.642.2900.01
PG 36	20 – 26	8	35	50/50	15	1.612.3600.15	1.642.3600.15
PG 36	22 – 32	8	35	50/50	15	1.612.3600.01	1.642.3600.01



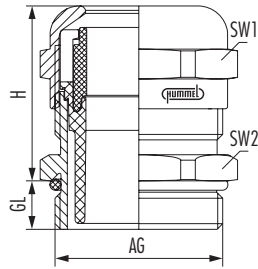
to the assembly instruction



ATEX Ex


Ex cable glands

HSK-INOX-PVDF-Ex (metric, PG)



Material	INOX 1.4305
Clamping insert	PVDF
Seal	FKM
Material o-ring	FKM
Protection class	IP 68 – 10 bar / IP 69 K
Ex-protection level	II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da
NEMA type rating	4 / 4X / 6
Temperature range	-20°C to +130°C

RoHS

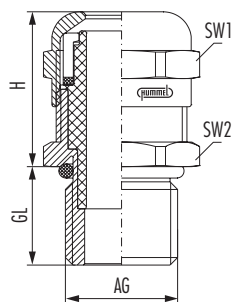
AG	∅k mm	GL mm	H mm	SW1/SW2 mm	 Nm	Item-No
M12 x 1.5	2 – 5	6.5	19	14/14	4	1.662.1200.51
M12 x 1.5	3 – 6.5	6.5	19	14/14	4	1.662.1200.50
M16 x 1.5	3 – 7	6	22	22/22	5	1.662.1600.51
M16 x 1.5	5 – 10	6	22	22/22	5	1.662.1600.50
M20 x 1.5	7 – 12	6	23	24/24	10	1.662.2000.51
M20 x 1.5	10 – 14	6	23	24/24	10	1.662.2000.50
M25 x 1.5	9 – 16	7	24	30/30	12	1.662.2500.51
M25 x 1.5	13 – 18	7	24	30/30	12	1.662.2500.50
M32 x 1.5	13 – 20	8	29	41/41	15	1.662.3200.51
M32 x 1.5	20 – 25	8	29	41/41	15	1.662.3200.50
M40 x 1.5	20 – 26	8	35	50/50	15	1.662.4000.51
M40 x 1.5	22 – 32	8	35	50/50	15	1.662.4000.50
PG 7	2 – 5	5	19	14/14	4	1.662.0700.15
PG 7	3 – 6.5	5	19	14/14	4	1.662.0700.01
PG 9	2 – 6	6	21	17/17	6	1.662.0900.15
PG 9	4 – 8	6	21	17/17	6	1.662.0900.01
PG 11	3 – 7	6	22	22/22	5	1.662.1100.15
PG 11	5 – 10	6	22	22/22	5	1.662.1100.01
PG 13.5	5 – 9	6	24	22/22	8	1.662.1300.15
PG 13.5	7 – 12	6	24	22/22	8	1.662.1300.01
PG 16	7 – 12	6	23	24/24	10	1.662.1600.15
PG 16	10 – 14	6	23	24/24	10	1.662.1600.01
PG 21	9 – 16	7	24	30/30	12	1.662.2100.15
PG 21	13 – 18	7	24	30/30	12	1.662.2100.01
PG 29	13 – 20	8	29	41/41	15	1.662.2900.15
PG 29	20 – 25	8	29	41/41	15	1.662.2900.01
PG 36	20 – 26	8	35	50/50	15	1.662.3600.15
PG 36	22 – 32	8	35	50/50	15	1.662.3600.01




to the assembly
instruction



RoHS



Material	Nickel-plated brass
Clamping insert	Polyamide V0 according to UL 94
Seal	FKM
Material o-ring	FKM
Protection class	IP 68 – 10 bar / IP 69 K
Ex-protection level	II 1D Ex ta IIIC Da / II 2G Ex db IIC Gb
Temperature range	-60°C to +105°C

AG	∅k mm	GL mm	H mm	SW1/SW2 mm	 Nm	Item-No
M12 x 1.5	2 – 5	16	18.7	14/14	7.5	1.622.1200.51
M12 x 1.5	3 – 6.5	16	18.7	14/14	7.5	1.622.1200.50
M16 x 1.5	3 – 7	16	22	20/20	9	1.622.1600.51
M16 x 1.5	5 – 10	16	22	20/20	9	1.622.1600.50
M20 x 1.5	7 – 12	16	25	24/24	10	1.622.2000.51
M20 x 1.5	10 – 14	16	25	24/24	10	1.622.2000.50
M25 x 1.5	9 – 16	16	26.5	30/30	12	1.622.2500.51
M25 x 1.5	13 – 18	16	26.5	30/30	12	1.622.2500.50
M32 x 1.5	14 – 20	16	32	40/40	15	1.622.3200.51
M32 x 1.5	18 – 25	16	32	40/40	15	1.622.3200.50
M40 x 1.5	20 – 26	16	38.5	50/50	24	1.622.4000.51
M40 x 1.5	22 – 32	16	38.5	50/50	24	1.622.4000.50

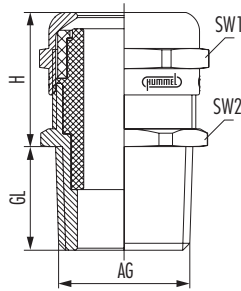


to the assembly
instruction




Ex cable glands

HSK-M-Ex d (NPT)



Material	Nickel-plated brass
Clamping insert	Polyamide V0 according to UL 94
Seal	FKM
Protection class	IP 68 – 10 bar / IP 69 K
Ex-protection level	II 1D Ex ta IIIC Da / II 2G Ex db IIC Gb
Temperature range	-60°C to +105°C

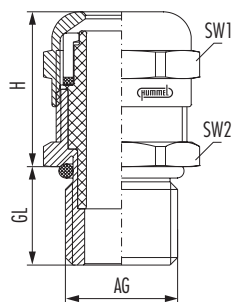
RoHS

AG	Øk mm	GL mm	H mm	SW1/SW2 mm	 Nm	Item-No
NPT 3/8"	3 – 7	16	22	20/20	9	1.622.3800.71
NPT 3/8"	5 – 10	16	22	20/20	9	1.622.3800.70
NPT 1/2"	7 – 12	20	25	24/24	10	1.622.1200.71
NPT 1/2"	10 – 14	20	25	24/24	10	1.622.1200.70
NPT 3/4"	9 – 16	20.5	26.5	30/30	12	1.622.3400.71
NPT 3/4"	13 – 18	20.5	26.5	30/30	12	1.622.3400.70
NPT 1"	14 – 20	25	32	40/40	15	1.622.1000.71
NPT 1"	18 – 25	25	32	40/40	15	1.622.1000.70
NPT 1 1/4"	20 – 26	26	38.5	50/50	24	1.622.5400.71
NPT 1 1/4"	22 – 32	26	38.5	50/50	24	1.622.5400.70
NPT 1 1/2"	20 – 26	26.5	38.5	50/50	24	1.622.6400.71
NPT 1 1/2"	22 – 32	26.5	38.5	50/50	24	1.622.6400.70




to the assembly
instruction





Material	Nickel-plated brass
Clamping insert	PVDF
Seal	FKM
Material o-ring	FKM
Protection class	IP 68 – 10 bar / IP 69 K
Ex-protection level	II 1D Ex ta IIIC Da / II 2G Ex db IIC Gb
Temperature range	-20°C to +130°C

RoHS

AG	∅k mm	GL mm	H mm	SW1/SW2 mm	 Nm	Item-No
M12 x 1.5	2 – 5	16	18.7	14/14	7.5	1.634.1200.51
M12 x 1.5	3 – 6.5	16	18.7	14/14	7.5	1.634.1200.50
M16 x 1.5	3 – 7	16	22	20/20	9	1.634.1600.51
M16 x 1.5	5 – 10	16	22	20/20	9	1.634.1600.50
M20 x 1.5	7 – 12	16	25	24/24	10	1.634.2000.51
M20 x 1.5	10 – 14	16	25	24/24	10	1.634.2000.50
M25 x 1.5	9 – 16	16	26.5	30/30	12	1.634.2500.51
M25 x 1.5	13 – 18	16	26.5	30/30	12	1.634.2500.50
M32 x 1.5	14 – 20	16	32	40/40	15	1.634.3200.51
M32 x 1.5	18 – 25	16	32	40/40	15	1.634.3200.50
M40 x 1.5	20 – 26	16	38.5	50/50	24	1.634.4000.51
M40 x 1.5	22 – 32	16	38.5	50/50	24	1.634.4000.50
NPT 3/8"	3 – 7	16	22	20/20	9	1.634.3800.71
NPT 3/8"	5 – 10	16	22	20/20	9	1.634.3800.70
NPT 1/2"	7 – 12	20	25	24/24	10	1.634.1200.71
NPT 1/2"	10 – 14	20	25	24/24	10	1.634.1200.70
NPT 3/4"	9 – 16	20.5	26.5	30/30	12	1.634.3400.71
NPT 3/4"	13 – 18	20.5	26.5	30/30	12	1.634.3400.70

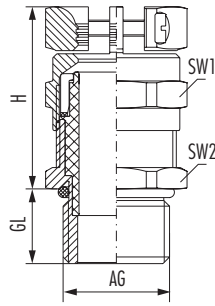


to the assembly
instruction




Ex cable glands

HSK-MZ-Ex d (metric, NPT)



Material	Nickel-plated brass
Clamping insert	Polyamide V0 according to UL 94
Seal	FKM
Material o-ring	FKM
Protection class	IP 68 – 10 bar / IP 69 K
Ex-protection level	II 1D Ex ta IIIC Da / II 2G Ex db IIC Gb
Temperature range	-60°C to +105°C

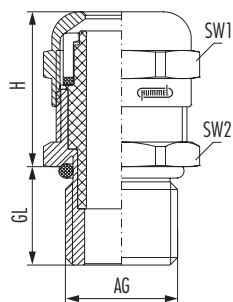
RoHS

AG	∅k mm	GL mm	H mm	SW1/SW2 mm	 Nm	Item-No
M12 x 1.5	3 – 6.5	16	26	14/14	7.5	1.628.1200.50
M16 x 1.5	5 – 10	16	30.2	20/20	9	1.628.1600.50
M20 x 1.5	10 – 14	16	34	24/24	10	1.628.2000.50
M25 x 1.5	13 – 18	16	37.8	30/30	12	1.628.2500.50
M32 x 1.5	18 – 25	16	44	40/40	15	1.628.3200.50
M40 x 1.5	22 – 32	16	51.5	50/50	24	1.628.4000.50
NPT 3/8"	5 – 10	16	30	20/20	9	1.628.3800.70
NPT 1/2"	10 – 14	20	33.6	24/24	10	1.628.1200.70
NPT 3/4"	13 – 18	20.5	37.8	30/30	12	1.628.3400.70
NPT 1"	18 – 25	25	44	40/40	15	1.628.1000.70
NPT 1 1/4"	22 – 32	25	51.5	50/50	24	1.628.5400.70
NPT 1 1/2"	22 – 32	26.5	51.5	50/50	24	1.628.6400.70




to the assembly
instruction





Material	INOX 1.4404
Clamping insert	Polyamide V0 according to UL 94
Seal	FKM
Material o-ring	FKM
Protection class	IP 68 – 10 bar / IP 69 K
Ex-protection level	II 1D Ex ta IIIC Da / II 2G Ex db IIC Gb
Temperature range	-60°C to +105°C

RoHS

AG	∅k mm	GL mm	H mm	SW1/SW2 mm	 Nm	Item-No
M12 x 1.5	2 – 5	16	19	14/14	7.5	1.632.1200.51
M12 x 1.5	3 – 6.5	16	19	14/14	7.5	1.632.1200.50
M16 x 1.5	3 – 7	16	22	22/22	9	1.632.1600.51
M16 x 1.5	5 – 10	16	22	22/22	9	1.632.1600.50
M20 x 1.5	7 – 12	16	25	24/24	10	1.632.2000.51
M20 x 1.5	10 – 14	16	25	24/24	10	1.632.2000.50
M25 x 1.5	9 – 16	14	26.5	30/30	12	1.632.2500.51
M25 x 1.5	13 – 18	16	26.5	30/30	12	1.632.2500.50
M32 x 1.5	14 – 20	16	32	40/40	15	1.632.3200.51
M32 x 1.5	18 – 25	16	32	40/40	15	1.632.3200.50
M40 x 1.5	20 – 26	16	38.5	50/50	24	1.632.4000.51
M40 x 1.5	22 – 32	16	38.5	50/50	24	1.632.4000.50
NPT 3/8"	3 – 7	16	22	20/20	9	1.632.3800.71
NPT 3/8"	5 – 10	16	22	20/20	9	1.632.3800.70
NPT 1/2"	7 – 12	20	25	24/24	10	1.632.1200.71
NPT 1/2"	10 – 14	20	25	24/24	10	1.632.1200.70
NPT 3/4"	9 – 16	20.5	26.5	30/30	12	1.632.3400.71
NPT 3/4"	13 – 18	20.5	26.5	30/30	12	1.632.3400.70
NPT 1"	18 – 25	25	29	41/41	15	1.632.1000.70

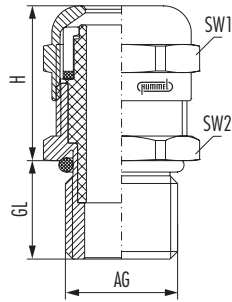


to the assembly
instruction




Ex cable glands

HSK-INOX-PVDF-Ex d (metric, NPT)



Material	INOX 1.4404
Clamping insert	PVDF
Seal	FKM
Material o-ring	FKM
Protection class	IP 68 – 10 bar / IP 69 K
Ex-protection level	II 1D Ex ta IIIC Da / II 2G Ex db IIC Gb
Temperature range	-20°C to +130°C

RoHS

AG	∅k mm	GL mm	H mm	SW1/SW2 mm	 Nm	Item-No
M12 x 1.5	2 – 5	16	19	14/14	7.5	1.633.1200.51
M12 x 1.5	3 – 6.5	16	19	14/14	7.5	1.633.1200.50
M16 x 1.5	3 – 7	16	22	20/20	9	1.633.1600.51
M16 x 1.5	5 – 10	16	22	20/20	9	1.633.1600.50
M20 x 1.5	7 – 12	16	25	24/24	10	1.633.2000.51
M20 x 1.5	10 – 14	16	25	24/24	10	1.633.2000.50
M25 x 1.5	9 – 16	16	26.5	30/30	12	1.633.2500.51
M25 x 1.5	13 – 18	16	26.5	30/30	12	1.633.2500.50
M32 x 1.5	14 – 20	16	32	40/40	15	1.633.3200.51
M32 x 1.5	18 – 25	16	32	40/40	15	1.633.3200.50
M40 x 1.5	20 – 26	16	38.5	50/50	24	1.633.4000.51
M40 x 1.5	22 – 32	16	38.5	50/50	24	1.633.4000.50
NPT 3/8"	3 – 7	16	22	20/20	9	1.633.3800.71
NPT 3/8"	5 – 10	16	22	20/20	9	1.633.3800.70
NPT 1/2"	7 – 12	20	25	24/24	10	1.633.1200.71
NPT 1/2"	10 – 14	20	25	24/24	10	1.633.1200.70
NPT 3/4"	9 – 16	20.5	26.5	30/30	12	1.633.3400.71
NPT 3/4"	13 – 18	20.5	26.5	30/30	12	1.633.3400.70



to the assembly
instruction

