

HEXLON

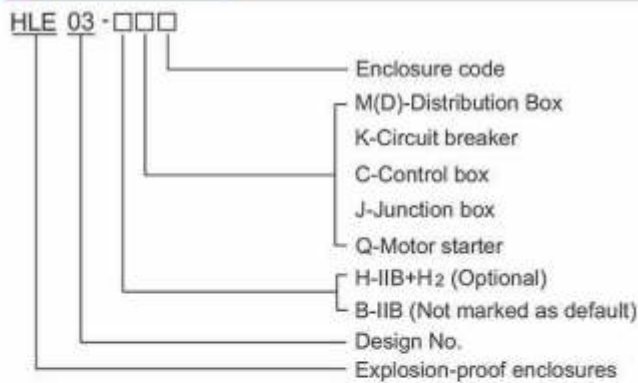
HLE03-Series Explosion-proof Enclosures

1 Application and Features

- Explosion protection
 - IECEX (IEC)
 - ATEX (CENELEC, EN)
 - China Ex(GB)
- Application in hazardous area
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- Die casting aluminum alloy enclosure.
- Cable entry holes, explosion-proof element hole or explosion-proof operation hole on the enclosure can be opened upon request, and comply with the restrictions on the usage of the certificate.
- The devices inside the enclosure shall meets the relevant standards of electrical equipment.
- Equipped with hinges and door handle, easy to installation and maintenance,also protect the flameproof surface from damage when the cover is opening or closing.
- Please specify the special requirements when ordering.



2 Part Number



Note: Please specify the number, specification and position of the cable entry holes, ex-proof plug can be delivered according to the requirements and ex-proof cable glands provided by user.

3 Specifications

Ex marking	Gas	⊕ II2 G Ex db IIB Gb	Ex db IIB Gb	Ex d IIB Gb				
	Dust	⊕ II2 G Ex db IIB+H ₂ Gb	Ex db IIB+H ₂ Gb	Ex d IIB+H ₂ Gb				
		⊕ II2 D Ex tb IIIC Db	Ex tb IIIC Db	Ex ID A21 IP66				
Conformity to standards		IEC 60079-0, IEC 60079-1, IEC 60079-31 EN 60079-0, EN 60079-1, EN 60079-31 GB3836.1,GB3836.2,GB12476.1,GB12476.5						
Material	Enclosure	Aluminum alloy enclosure, powder coated, industrial gray with dark lines texture (RAL7035)						
	Transparent parts	Toughened glass, resistant to 4J impact						
Exposed fastener		Stainless steel						
Degree of protection		IP66, (J03, J07, J08, J11, J15, if sealing strip is solid silicone rubber even upto IP67)						
Ambient temperature	Enclosure code	03,07,08,11,15	Without transparent 19,21	With transparent 19,21				
	Ambient temperature	-20°C ~ +60°C, -40°C ~ +60°C		-20°C ~ +60°C				
	Service temperature	-20°C ~ +100°C, -40°C ~ +100°C		-20°C ~ +100°C				
Components and accessories on the cover		HL0105 explosion-proof button see P B/72~77 HL0106 explosion-proof signal lamp see P B/78 HL0107 explosion-proof signal lamp see P B/79						
Cable entries		M□X1.5 as standard (upon request), NPT thread (optional), HLBM-□ is recommended, refer to Page D/11~D/20 for details.						
Installation Method		Hanging type (Standard) Floor type (Optional)						
Weight of enclosure		03#	07#	08#	11#	15#	19#	21#
		9kg	11.5kg	16.6kg	26kg	48kg	85kg	95kg

Min.
-40

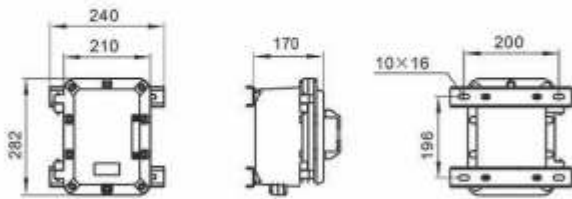
Max.
+100

Max.
IP67

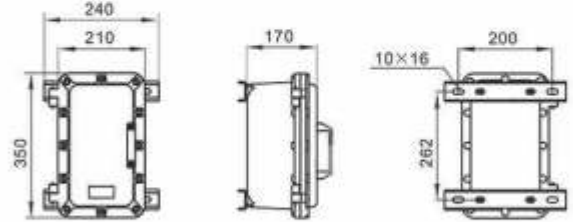
Zones
1&2

Zones
21&22

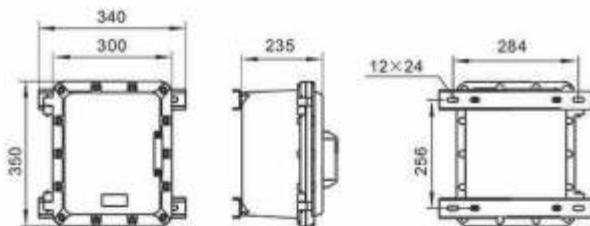
4 Outline and Installation Dimension (Dimensions in mm)



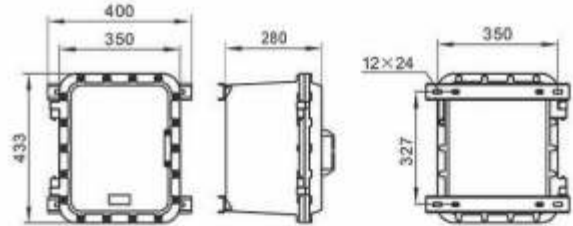
HLE03-03



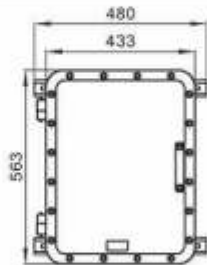
HLE03-07



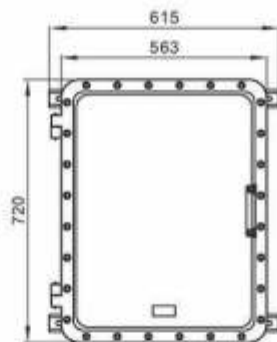
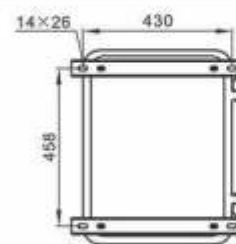
HLE03-08



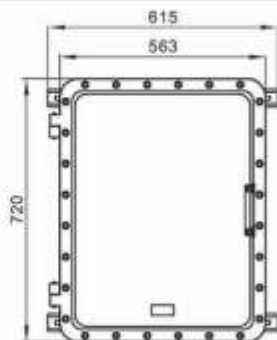
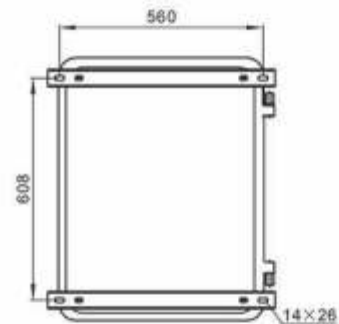
HLE03-11



HLE03-15



HLE03-19









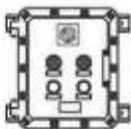
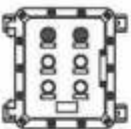
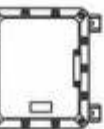


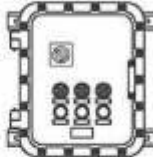

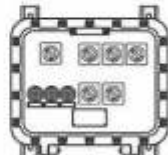
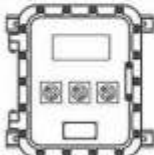


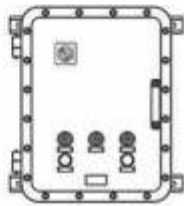
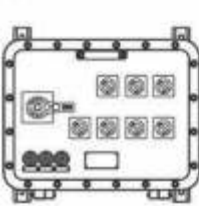
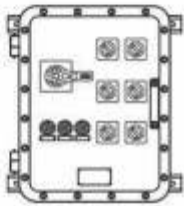
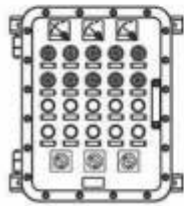

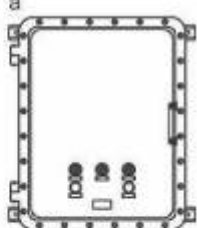
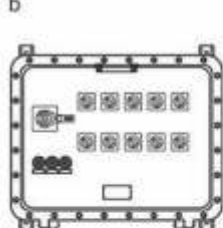
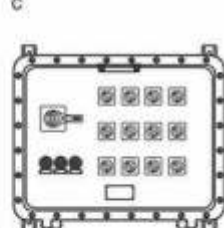
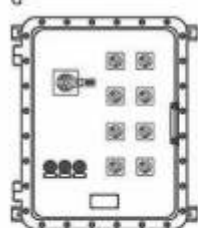


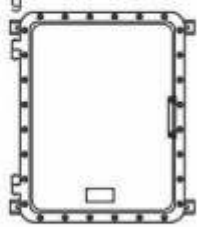
HLE03-21



HEXLON

HLE03-Series Explosion-proof Enclosures

5 Outline Proposal

Enclosure code	Component layout				
03					
07					
08					
11					
					
15					
19/21					
					

Note: Other proposals can be provided upon request.

HEXLON

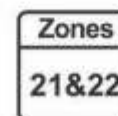
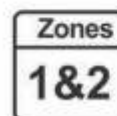
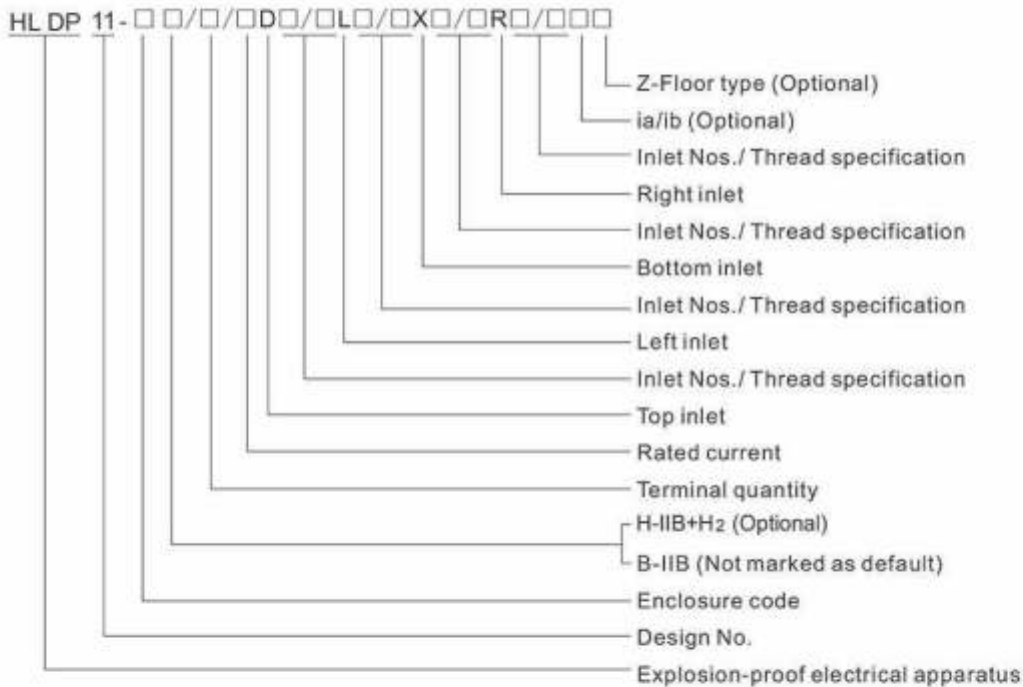
HLDP11-Series Explosion-proof Electrical Apparatus (Terminal Box)

1 Application and Features

- Explosion protection
 - IECEx (IEC)
 - ATEX (CENELEC, EN)
 - China Ex(GB)
- Application in hazardous area
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- Three types of explosion protection (Ex db IIB, Ex db IIB+H2, Ex tb IIIC).
- Aluminum alloy enclosure, power coated.
- Equipped with hinges and door handle, easy to installation and maintenance, also protect the flameproof surface from damage when the cover is opening or closing.
- Can be customized upon request and able to meet the usage restrictions of the certificate.
- Direction, size and quantity of cable entry can be customized and meet the requirements of dissipated power and mechanical strength of the enclosure.



2 Part Number



HEXLON

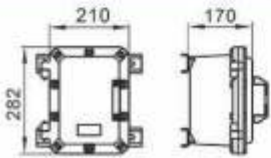
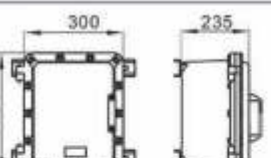
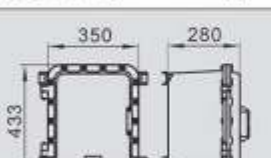
HLDP11-Series Explosion-proof Electrical Apparatus(Terminal Box)

3 Specifications

Ex marking	Gas	⊕II2 G Ex db IIB T6/T5/T4 Gb	Ex db IIB T6/T5/T4 Gb	Ex d IIB T6/T5/T4 Gb							
		⊕II2 G Ex db IIB+H2 T6/T5/T4 Gb	Ex db IIB+H2 T6/T5/T4 Gb	Ex d IIB+H2 T6/T5/T4 Gb							
	Dust	⊕II2 D Ex tb IIIC T80/T95/T130°C Db	Ex tb IIIC T80/T95/T130°C Db	Ex tD A21 IP66 T80/T95/T130°C							
Conformity to standards		IEC 60079-0, IEC 60079-1, IEC 60079-31 EN 60079-0, EN 60079-1, EN 60079-31 GB3836.1, GB3836.2, GB12476.1, GB12476.5									
Enclosure material	Enclosure	Aluminum alloy enclosure, powder coated, industrial gray with dark lines texture(RAL7035)									
Exposed fastener		Stainless steel									
Components	Brand of terminal	International brand									
Rated voltage		Max. 1000V AC, 1500V DC									
Rated current		Max. 1200A									
Frequency		50Hz/60Hz									
Maximum dissipation power	Enclosure size	Type	Ta:+60℃		Ta:+40℃				Weight of empty enclosure		
			T6/T80℃		T5/T95℃		T4/T130℃				
		Power	Rated current	Power	Rated current	Power	Rated current				
		282X210X170	03	45W	≤63A	110W	--	110W		--	9.0kg
		350X210X170	07	45W	63A 100A	80W	--	139W		--	11.5kg
		350X300X235	08	45W	63A 100A	80W	--	139W		--	16.6kg
		433X350X280	11	100W	100A 250A	288W	--	288W		--	26kg
		563X433X280	15	130W	250A 400A	365W	400A 800A	365W		800A 1200A	48kg
720X563X280	19	200W	250A 400A	448W	400A 800A	448W	800A 1200A	85kg			
720X563X350	21	210W	250A 400A	690W	400A 800A	690W	800A 1200A	95kg			
Degree of protection		03,07,08,11,15--IP66/IP67			19,21--IP66						
Ambient temperature		-20℃~+40/60℃, -40℃~+40/60℃									
Cable entries		Standard M□×1.5(Upon request),NPT thread (Optional), HLBM-□ is recommended, refer to Page D/11~D/20 for details.									
Inlet direction		Upon request									
Installation Method		Hanging type (Standard)			Floor type (Optional)						

4 Selection Table (Dimensions in mm)

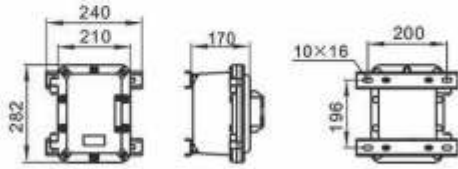
Maximum quantity of terminals that can be installed are shown in the table below:

Enclosure specifications	Guideway×Terminal (specification and quantity)										
	2.5 ²	4 ²	6 ²	10 ²	16 ²	35 ²	70 ²	120 ²	185 ²	240 ²	300 ²
	UK3N	UK5N	UK6N	UK10N	UK16N	UK35N	—	—	—	—	—
	SAK2.5EN	SAK4EN	SAK6EN	SAK10EN	SAK16EN	SAK35EN	—	—	—	—	—
03 	1X23	1X21	1X18	1X14	1X12	—	—	—	—	—	—
07 	1X31	1X29	1X24	1X19	1X16	—	—	—	—	—	—
08 	1X32	1X30	1X25	1X20	1X18	—	—	—	—	—	—
11 	1X45	1X40	1X34	1X28	1X24	1X16	—	—	—	—	—
	2X45	2X40	2X34	2X28	—	—	—	—	—	—	—
15 	1X60	1X54	1X48	1X36	1X30	1X20	—	—	—	—	—
	2X60	2X54	2X48	2X36	2X30	—	—	—	—	—	—
19 	1X90	1X80	1X70	1X60	1X40	1X25	1X25	1X14	1X10	1X8	1X5
	2X90	2X80	2X70	2X60	2X40	—	—	—	—	—	—
21 	1X90	1X80	1X70	1X60	1X40	1X25	1X25	1X14	1X10	1X8	1X5
	2X90	2X80	2X70	2X60	2X40	—	—	—	—	—	—

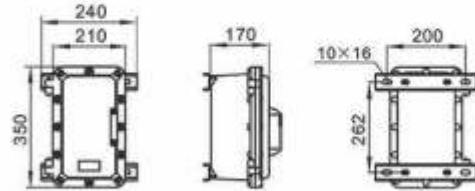
HEXLON

HLDP11-Series Explosion-proof Electrical Apparatus (Terminal Box)

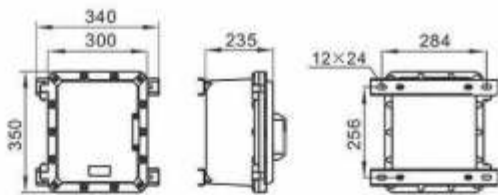
5 Outline and Installation Dimension (Dimensions in mm)



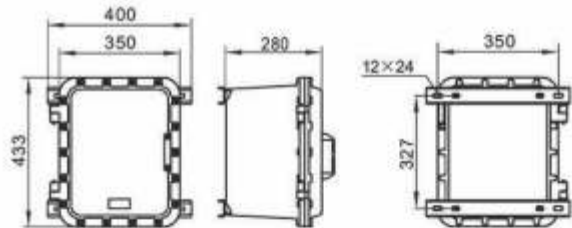
Enclosure 03



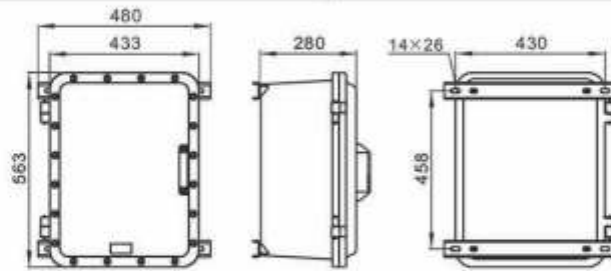
Enclosure 07



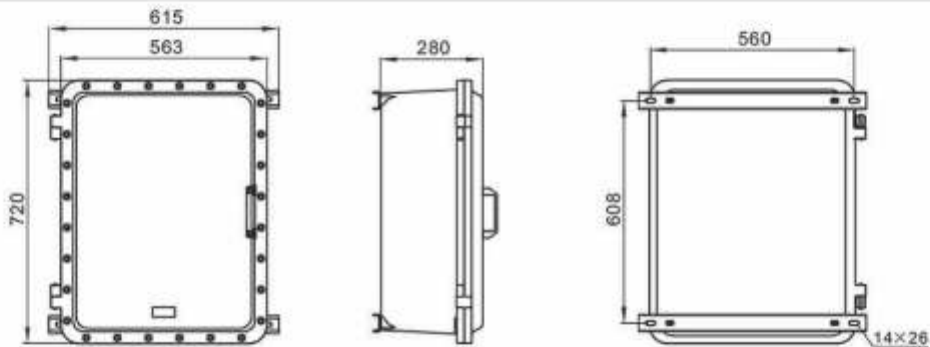
Enclosure 08



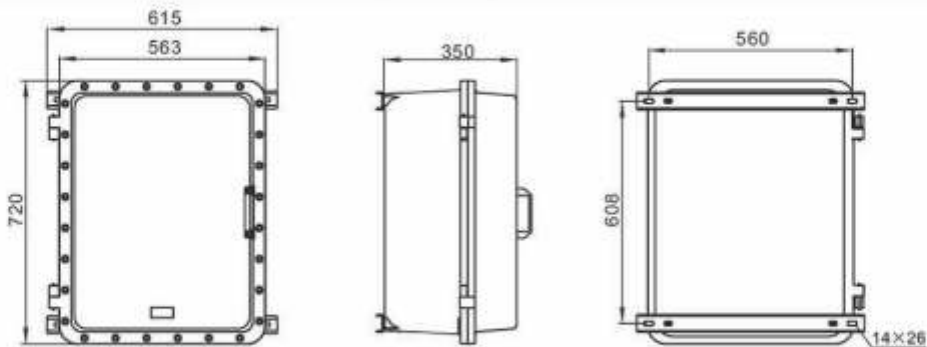
Enclosure 11



Enclosure 15



Enclosure 19



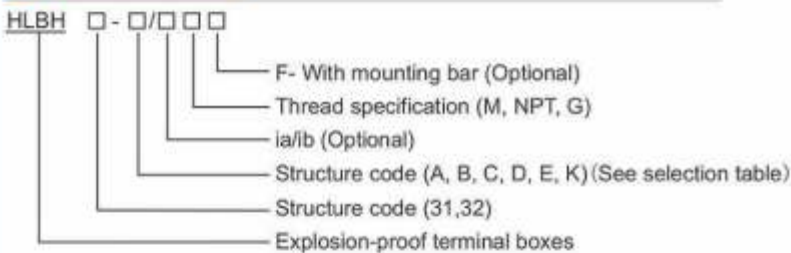
Enclosure 21

1 Application and Features

- Explosion protection
 - IECEx (IEC)
 - ATEX (CENELEC, EN)
 - China Ex(GB)
- Application in hazardous area
 - Zone 1 and Zone 2, Zone 21 and Zone 22
- This series product has 6 types for selection: A, B, C, D, E and K.



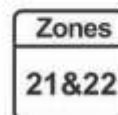
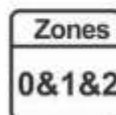
2 Part Number



Note: Cable gland should be installed.

3 Specifications

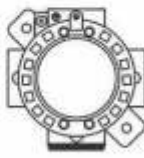

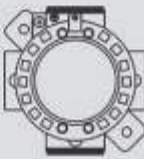
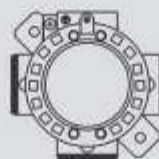
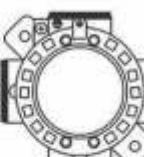
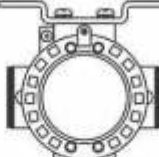
Ex marking	Gas	M, NPT	⊕ II 2 G Ex db IIC T6 Gb	Ex db IIC T6 Gb	Ex d IIC T6 Gb			
			⊕ II 1 G Ex ia IIC T6 Ga	Ex ia IIC T6 Ga	Ex ia IIC T6 Ga			
			⊕ II 2 G Ex ib IIC T6 Gb	Ex ib IIC T6 Gb	Ex ib IIC T6 Gb			
	Dust	M, NPT, G	⊕ II 2 D Ex tb IIIC T80°C Db	Ex tb IIIC T80°C Db	Ex tD A21 IP66 T80°C			
Conformity to standards		IEC 60079-0, IEC 60079-1, IEC 60079-11, IEC 60079-31 EN 60079-0, EN 60079-1, EN 60079-11, EN 60079-31 GB3836.1, GB3836.2, GB3836.4, GB12476.1, GB12476.5						
Enclosure material		Aluminum alloy enclosure, powder coated, industrial gray with dark lines texture(RAL7035)						
Exposed fastener		Stainless steel						
Frequency		50Hz / 60Hz						
Terminal block	Ex marking	Type	Terminal	Voltage	Current	Picture	Qty	Weight
	Ex d, Ex tb	HLBH31	MBK3/E-Z	400V AC 220V DC	16A		6	0.05kg
			MBK5/E-Z	500V AC 220V DC	20A		4	0.04kg
		HLBH32	Pillar terminal 4-M5		20A		4	0.08kg
	Ex i, Ex tb	HLBH31	MBK3/E-Z	Max. 36VAC/DC	5A		6	0.05kg
			MBK5/E-Z				4	0.04kg
		HLBH32	Pillar terminal 4-M5		4	0.08kg		
Cable cross section		0.2~4.0mm ²						
Degree of protection		IP66						
Ambient temperature		-60°C~+55°C						
Cable entries		Standard M20×1.5~M32×1.5 Optional NPT1/2~NPT1 Optional G1/2~G1						
Cable gland (Optional)		HLBM-□ is recommended, refer to Page D/11~D/20 for details.						



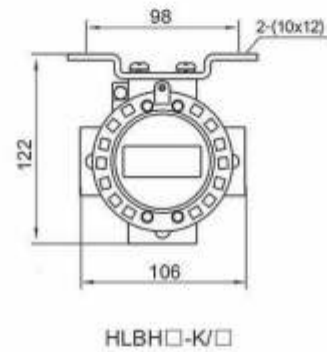
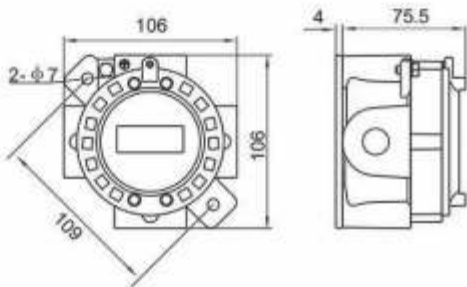
HEXLON

HLBH□-Series Explosion-proof Terminal Boxes

4 Selection Table

Type	Code	Outline	Weight (kg)	Type	Code	Outline	Weight (kg)
HLBH□-ANPT1/2	A		0.66	HLBH□-DNPT1/2	D		0.66
HLBH□-ANPT3/4			0.65	HLBH□-DNPT3/4			0.71
HLBH□-ANPT 1			0.62	HLBH□-DNPT 1			0.60
HLBH□-AM20X1.5			0.65	HLBH□-DM20X1.5			0.70
HLBH□-AM25X1.5			0.67	HLBH□-DM25X1.5			0.67
HLBH□-AM32X1.5			0.62	HLBH□-DM32X1.5			0.60
HLBH□-BNPT1/2	B		0.68	HLBH□-ENPT1/2	E		0.68
HLBH□-BNPT3/4			0.66	HLBH□-ENPT3/4			0.66
HLBH□-BNPT 1			0.61	HLBH□-ENPT 1			0.61
HLBH□-BM20X1.5			0.67	HLBH□-EM20X1.5			0.67
HLBH□-BM25X1.5			0.65	HLBH□-EM25X1.5			0.65
HLBH□-BM32X1.5			0.61	HLBH□-EM32X1.5			0.61
HLBH□-CNPT1/2	C		0.69	HLBH□-K/□	K		0.80
HLBH□-CNPT3/4			0.66				
HLBH□-CNPT 1			0.61				
HLBH□-CM20X1.5			0.69				
HLBH□-CM25X1.5			0.66				
HLBH□-CM32X1.5			0.61				

5 Outline and Installation Dimension (Dimensions in mm)



HEXLON

HLBM-01, 02 Series Explosion-proof Cable Glands(Single Seal, Unarmoured)

1 Application and Features

- Explosion protection
 - IECEX (IEC)
 - ATEX (CENELEC, EN)
 - China Ex(GB)
- Application in hazardous area
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- Increased safety (Type 'e'), restricted breathing (Type 'nR'), combustible dust (Type 'tb') structure.
- Single seal for unarmoured cables.
- External hexagon and stripe compression nuts are available.
- Can be installed on Ex i (intrinsic safety type) equipment.



HLBM-01

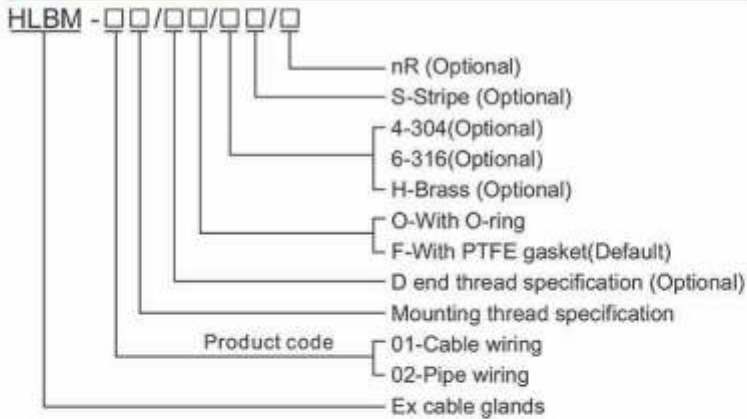


HLBM-01S



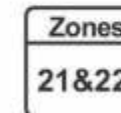
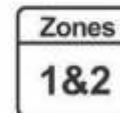
HLBM-02

2 Part Number



3 Specifications

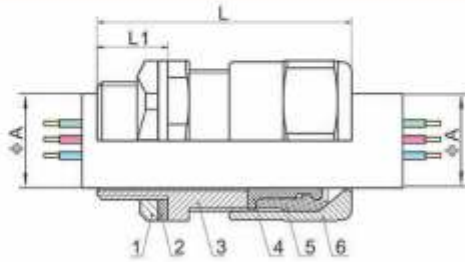
Explosion protection	Ex marking	⊕ II 2 GD Ex eb IIC Gb /Ex tb IIIC Db	Ex eb IIC Gb	Ex e IIC Gb
		⊕ II 2/3 GD Ex eb IIC Gb /Ex nR IIC Gc/Ex tb IIIC Db	Ex nR IIC Gc Ex tb IIIC Db	Ex nR IIC Gc Ex tD A20 IP66
Conformity to standards		IEC60079-0,IEC60079-7,IEC60079-15,IEC60079-31 EN60079-0, EN60079-7, EN60079-15, EN60079-31 GB3836.1,GB3836.3,GB3836.8,GB12476.1,GB12476.5		
Material		Stainless steel, nickel plated brass, brass, etc.		
Degree of protection		IP66		
Ambient temperature		-43℃~+100℃		
Connection thread		NPT thread, Metric thread (M), Inch thread(G)		



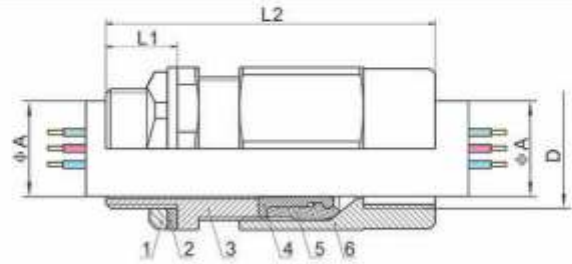
HEXLON

HLBM-01, 02 Series Explosion-proof Cable Glands(Single Seal, Unarmoured)

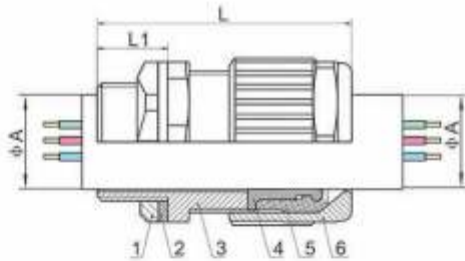
4 Outline and Installation Dimension (Dimensions in mm)



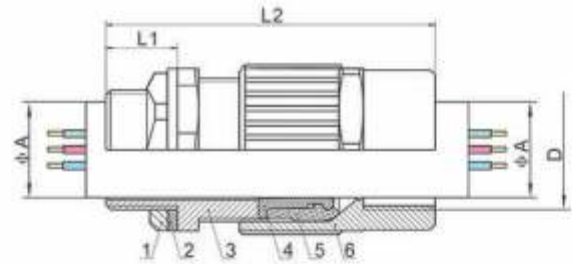
HLBM-01



HLBM-02



HLBM-01S



HLBM-02S

- 1.Locknut 2.Sealing washer 3.Inlet connector
4.Sealing ring 5.Sealing ring loop 6. Compression nut

- 1.Locknut 2.Sealing washer 3.Inlet connector
4.Sealing ring 5.Sealing ring loop 6. Compression nut

Mounting thread			Cable outer diameter φA(mm)	Thread length L1(mm)	Length L(mm)	Length L2(mm)	Maximum outer diameter (mm)	HLBM-01 Weight (kg)	HLBM-02 Weight (kg)
M	G	NPT							
M16×1.5	—	—	5.5~12	16	56	71	29	0.13	0.14
M20×1.5A	G1/2A	NPT1/2A	5.5~12	16	56	71	29	0.13	0.14
M20×1.5B	G1/2B	NPT1/2B	9.5~16	16	56	71	29	0.11	0.13
M20×1.5C	G1/2C	NPT1/2C	12.5~20.5	16	56	71	37	0.13	0.14
M25×1.5A	G3/4A	NPT3/4A	9.5~16	16	56	71	29	0.15	0.17
M25×1.5B	G3/4B	NPT3/4B	12.5~20.5	16	56	71	37	0.17	0.19
M25×1.5C	G3/4C	NPT3/4C	17~26	16	58	73	44	0.15	0.17
M32×1.5A	G1A	NPT1A	12.5~20.5	18	58	73	39	0.25	0.28
M32×1.5B	G1B	NPT1B	17~26	18	60	75	44	0.23	0.26
M32×1.5C	G1C	NPT1C	22~33	18	65	80	55	0.25	0.28
M40×1.5A	G1 1/4A	NPT1 1/4A	17~26	19	61	76	50	0.60	0.63
M40×1.5B	G1 1/4B	NPT1 1/4B	22~33	19	66	81	55	0.48	0.51
M40×1.5C	G1 1/4C	NPT1 1/4C	28~41	19	69	84	67	0.60	0.63
M50×1.5A	G1 1/2A	NPT1 1/2A	22~33	20	67	82	55	0.91	0.96
M50×1.5B	G1 1/2B	NPT1 1/2B	28~41	20	70	85	67	0.75	0.79
M50×1.5C	G1 1/2C	NPT1 1/2C	36~52.6	20	83	98	73	0.91	0.96
M63×1.5A	G2A	NPT2A	28~41	20	70	85	73	0.78	0.85
M63×1.5B	G2B	NPT2B	36~52.6	20	83	98	73	0.86	0.92
M63×1.5C	G2C	NPT2C	46~65	20	95	110	89	0.82	0.88

- Note:** 1. Locknut and sealing washer(PTFE gasket) are supplied as standard when delivery. Above weight is based on nickel plated brass material.
2. Earth lug and shroud are on request, see Page D/25, 26.
3. The standard pitch of metric thread products is 1.5mm, other pitches can be customized, please specify when ordering.

1 Application and Features

- Explosion protection
 - IECEx (IEC)
 - ATEX (CENELEC, EN)
 - China Ex(GB)
- Application in hazardous area
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- Increased safety (Type 'e'), restricted breathing (Type 'nR'), combustible dust (Type 'tb') structure.
- Single seal for armoured cables.
- External hexagon and stripe compression nuts are available.
- Can be installed on Ex i (intrinsic safety type) equipment.



HLBM-05

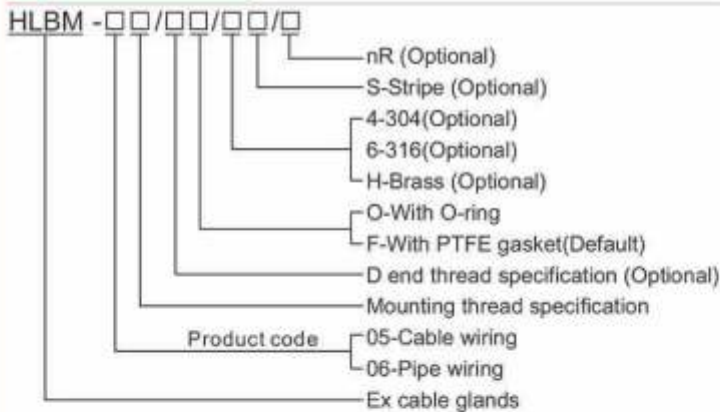


HLBM-05S



HLBM-06

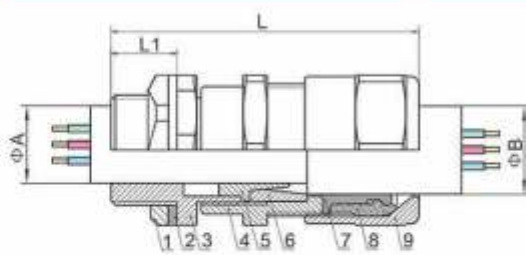
2 Part Number



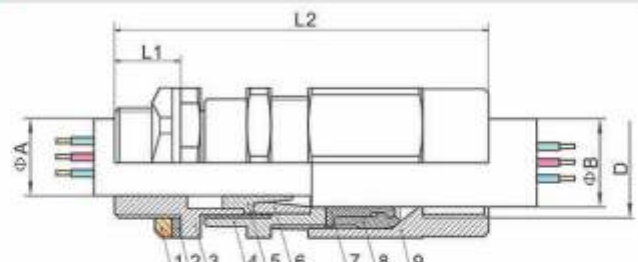
3 Specifications

Explosion protection	Ex marking	⊕ II 2 GD Ex eb IIC Gb	Ex eb IIC Gb	Ex e IIC Gb
		/Ex tb IIIC Db	Ex nR IIC Gc	Ex nR IIC Gc
		⊕ II 2/3 GD Ex eb IIC Gb	Ex tb IIIC Db	Ex ID A20 IP66
		/Ex nR IIC Gc/Ex tb IIIC Db		
Conformity to standards		IEC60079-0, IEC60079-7, IEC60079-15, IEC60079-31 EN60079-0, EN60079-7, EN60079-15, EN60079-31 GB3836.1, GB3836.3, GB3836.8, GB12476.1, GB12476.5		
Material		Stainless steel, nickel plated brass, brass, etc.		
Degree of protection		IP66		
Ambient temperature		-43°C ~ +100°C		
Connection thread		NPT thread, Metric thread (M), Inch thread(G)		

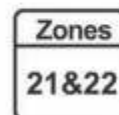
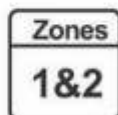
4 Outline and Installation Dimension (Dimensions in mm)



HLBM-05

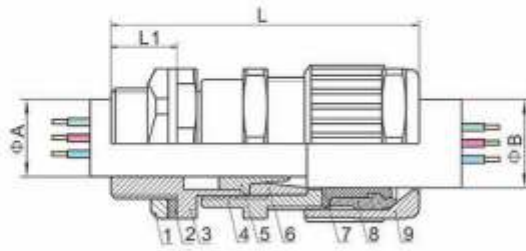


HLBM-06



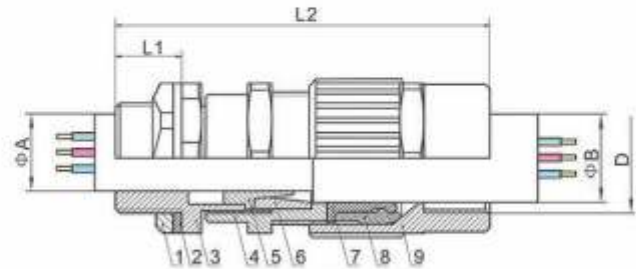
HEXLON

HLBM-05, 06 Series Explosion-proof Cable Glands (Single Seal, Armoured)



HLBM-05S

- 1.Locknut
- 2.Sealing washer
- 3.Inlet connector
- 4.Middle connector
- 5.Armour cone
- 6.Clamping ring
- 7.Sealing ring
- 8.Sealing ring loop
- 9.Compression nut



HLBM-06S

- 1.Locknut
- 2.Sealing washer
- 3.Inlet connector
- 4.Middle connector
- 5.Armour cone
- 6.Clamping ring
- 7.Sealing ring
- 8.Sealing ring loop
- 9.Compression nut

Mounting thread			Cable outer diameter (mm)		Thread length L1 (mm)	Length L (mm)	Length L2 (mm)	HLBM-05 Weight (kg)	HLBM-06 Weight (kg)
M	G	NPT	Outlet ϕA	Inlet ϕB					
M16X1.5A	—	—	3~8.2	5.5~12	15	68	83	0.16	0.17
M16X1.5		—	6.5~12	9.5~16	15	69	84	0.16	0.17
M20X1.5A	G1/2A	NPT1/2A	3~8.2	5.5~12	15	68	83	0.18	0.20
M20X1.5	G1/2	NPT1/2	6.5~12	9.5~16	15	68	83	0.16	0.18
M20X1.5C	G1/2C	NPT1/2C	10~14.5	12.5~20.5	15	72.5	87.5	0.22	0.24
M25X1.5A	G3/4A	NPT3/4A	6.5~12	9.5~16	15	68	83	0.20	0.22
M25X1.5	G3/4	NPT3/4	10~14.5	12.5~20.5	15	70.5	85.5	0.26	0.28
M25X1.5C	G3/4C	NPT3/4C	12.5~20.2	17~26	15	78.5	93.5	0.32	0.32
M32X1.5A	G1A	NPT1A	10~14.5	12.5~20.5	20	76.5	91.5	0.36	0.39
M32X1.5	G1	NPT1	12.5~20.2	17~26	20	81.5	96.5	0.40	0.43
M32X1.5C	G1C	NPT1C	19.5~26.5	22~33	20	88	103	0.52	0.55
M40X1.5A	G11/4A	NPT11/4A	12.5~20.2	17~26	20	81.5	96.5	0.76	0.80
M40X1.5	G11/4	NPT11/4	19.5~26.5	22~33	20	88	103	0.72	0.76
M40X1.5C	G11/4C	NPT11/4C	25~32.5	28~41	20	94.5	110	0.98	1.02
M50X1.5A	G11/2A	NPT11/2A	19.5~26.5	22~33	20	88	103	1.17	1.20
M50X1.5	G11/2	NPT11/2	25~32.5	28~41	20	93.5	108.5	1.08	1.14
M50X1.5C	G11/2C	NPT11/2C	31.5~44.5	36~46	20	105	120	1.37	1.42
M50X1.5D	G11/2D	NPT11/2D	31.5~44.5	41~52.6	20	105	120	1.33	1.38
M63A	G2A	NPT2A	25~32.5	28~41	20	93.5	108.5	1.24	1.40
M63	G2	NPT2	31.5~44.5	36~46	20	105	120	1.38	1.44
M63C	G2C	NPT2C	31.5~44.5	41~52.6	20	105	120	1.36	1.42

Note: 1. Locknut and sealing washer (PTFE gasket) are supplied as standard when delivery. Above weight is based on nickel plated brass material.

2. Earth lug and shroud are on request, see Page D/25, 26.

3. The standard pitch of metric thread products is 1.5mm, other pitches can be customized, please specify when ordering.

HEXLON

HLBM-07, 08 Series Explosion-proof Cable Glands (Single Seal, Unarmoured)

1 Application and Features

- Explosion protection
 - IECEx (IEC)
 - ATEX (CENELEC, EN)
 - China Ex(GB)
- Application in hazardous area
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- Flame-proof (Type 'd'), Increased safety (Type 'e'), restricted breathing (Type 'nR'), combustible dust (Type 'tb') structure.
- Single seal for unarmoured cables.
- External hexagon and stripe compression nuts are available.
- Can be installed on Ex i (intrinsic safety type) equipment.

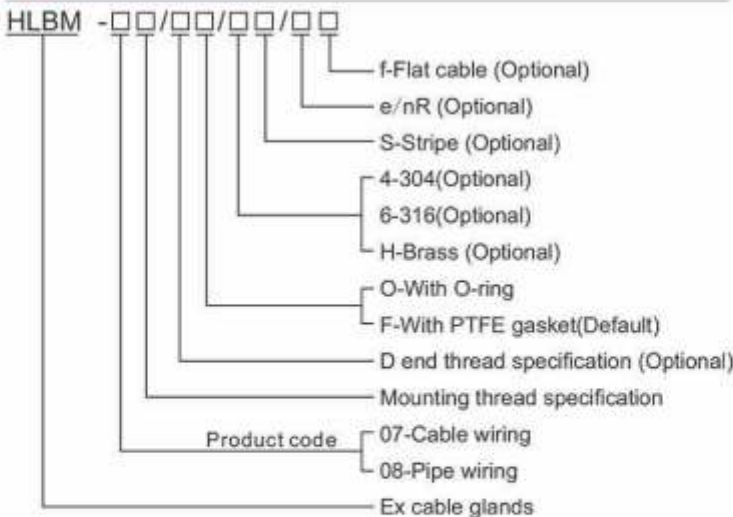


HLBM-07



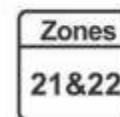
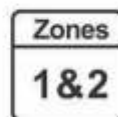
HLBM-08

2 Part Number



3 Specifications

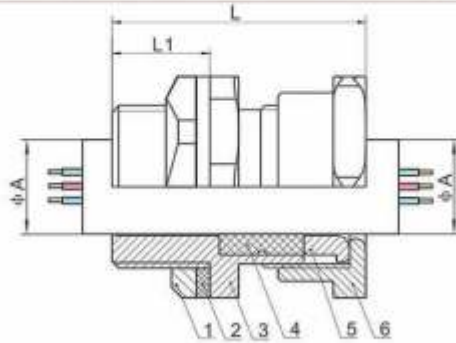
Explosion protection	Ex marking	Ⓢ II 2 GD Ex db IIC Gb /Ex eb IIC Gb/Ex tb IIIC Db Ⓢ II 2/3 GD Ex db IIC Gb /Ex eb IIC Gb/Ex nR IIC Gc /Ex tb IIIC Db	Ex db IIC Gb Ex eb IIC Gb Ex nR IIC Gc Ex tb IIIC Db	Ex d IIC Gb Ex e IIC Gb Ex nR IIC Gc Ex tD A20 IP66/IP67/IP68(2m/72h)
Conformity to standards		IEC60079-0, IEC60079-1, IEC60079-7, IEC60079-15, IEC60079-31 EN60079-0, EN60079-1, EN60079-7, EN60079-15, EN60079-31 GB3836.1, GB3836.2, GB3836.3, GB3836.8, GB12476.1, GB12476.5		
Material		Stainless steel, nickel plated brass, brass, etc.		
Degree of protection		IP66, IP67, IP68(2m/72h)		
Ambient temperature		-43 ℃ ~ +100 ℃, -43 ℃ ~ +120 ℃ (f type)		
Connection thread		NPT thread, Metric thread (M), Inch thread (G, exclude Ex db type)		



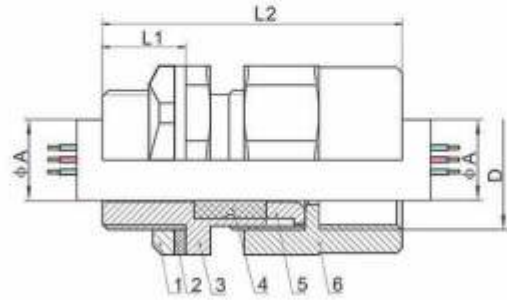
HEXLON

HLBM-07, 08 Series Explosion-proof Cable Glands (Single Seal, Unarmoured)

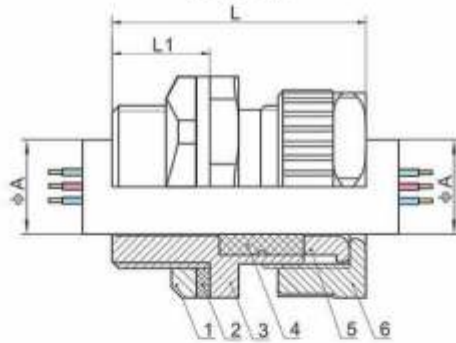
4 Outline and Installation Dimension (Dimensions in mm)



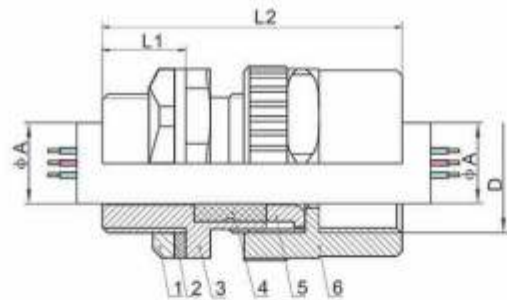
HLBM-07



HLBM-08



HLBM-07S



HLBM-08S

- 1.Locknut 2.Sealing washer 3.Connector body
4.Sealing ring 5.Washer 6. Compression nut

- 1.Locknut 2.Sealing washer 3.Connector body
4.Sealing ring 5.Washer 6. Compression nut

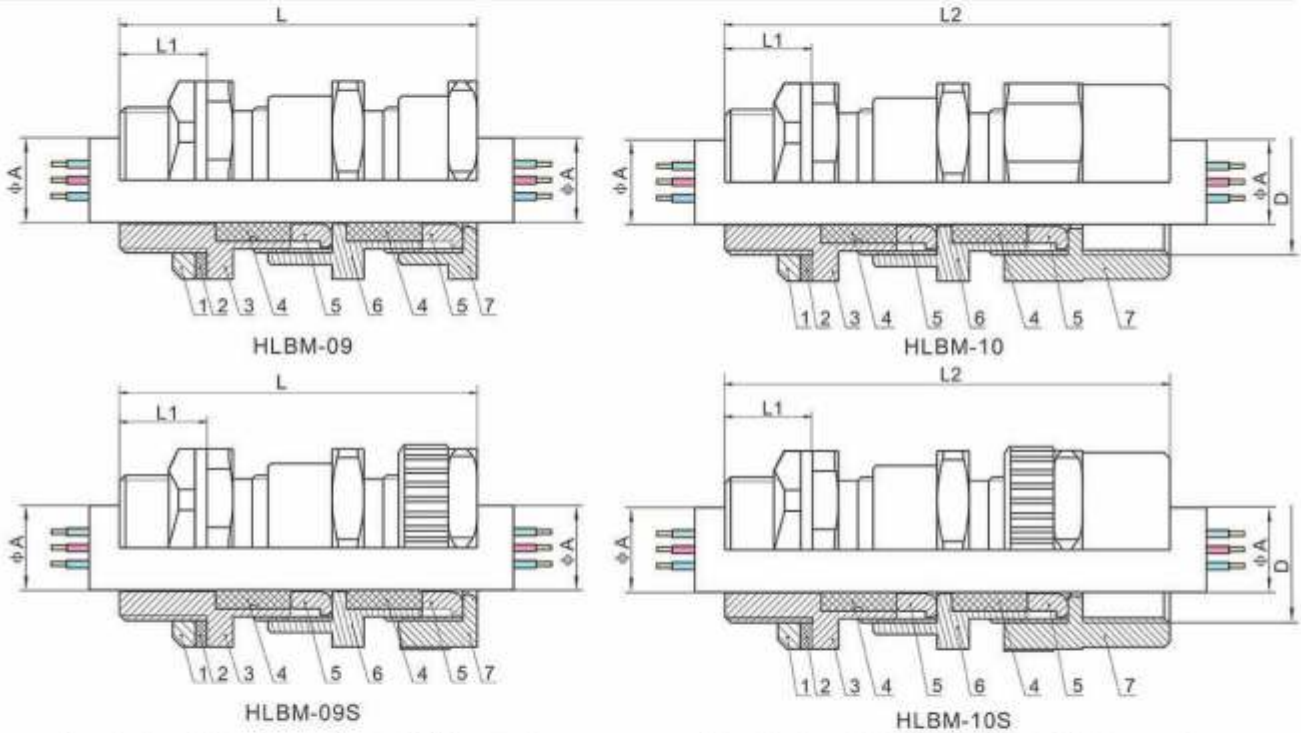
Mounting thread			Cable outer diameter ϕA (mm)	Flat cable (mm)			Thread length L1(mm)	Length L(mm)	Length L2(mm)	Maximum outer diameter (mm)	HLBM-07 Weight (kg)	HLBM-08 Weight (kg)
M	G	NPT		Outer diameter ϕA	L	L1						
M16×1.5	—	—	3~8	—	—	—	16	54	69	27	0.10	0.11
M20×1.5A	G1/2A	NPT1/2A	3~8	11×7(±1)	39	57	16	54	69	27	0.12	0.12
M20×1.5B	G1/2B	NPT1/2B	6~11	11×7(±1)	39	57	16	56	71	27	0.10	0.14
M20×1.5C	G1/2C	NPT1/2C	10~14.5	15×6(±1)	40	57	16	56	71	33	0.12	0.14
M25×1.5A	G3/4A	NPT3/4A	10~14.5	11×7(±1)	38	57	16	56	71	33	0.15	0.17
M25×1.5B	G3/4B	NPT3/4B	13~20	15×6(±1)	38	55	16	57	72	33	0.15	0.17
M25×1.5C	G3/4C	NPT3/4C	19~25.5	—	—	—	16	61	76	39	0.16	0.18
M32×1.5A	G1A	NPT1A	13~20	15×6(±1)	45	60	18	59	74	39	0.25	0.28
M32×1.5B	G1B	NPT1B	19~25.5	—	—	—	18	63	78	39	0.25	0.28
M32×1.5C	G1C	NPT1C	25~32	—	—	—	18	68	83	50	0.27	0.30
M40×1.5A	G11/4A	NPT11/4A	19~25.5	—	—	—	20	65	80	50	0.55	0.58
M40×1.5B	G11/4B	NPT11/4B	25~32	—	—	—	20	70	85	50	0.50	0.54
M40×1.5C	G11/4C	NPT11/4C	32~43	—	—	—	20	74	89	60	0.60	0.64
M50×1.5A	G11/2A	NPT11/2A	25~32	—	—	—	20	70	85	60	0.79	0.84
M50×1.5B	G11/2B	NPT11/2B	32~43	—	—	—	20	74	89	60	0.69	0.74
M50×1.5C	G11/2C	NPT11/2C	42.5~55	—	—	—	20	83	98	73	0.86	0.91
M63×1.5A	G2A	NPT2A	32~43	—	—	—	20	74	89	73	0.86	0.92
M63×1.5B	G2B	NPT2B	42.5~55	—	—	—	20	83	98	73	0.84	0.90

- Note:** 1. Locknut and sealing washer (PTFE washer) are supplied for Ex e, n, t type products, Without lock nut when delivery for Ex d type. Above weight is based on nickel plated brass material.
2. Earth lug and shroud are on request, see Page D/25, 26.
3. The standard pitch of metric thread products is 1.5mm, other pitches can be customized, please specify when ordering.

HEXLON

HLBM-09, 10 Series Explosion-proof Cable Glands(Double Seal, Unarmoured)

4 Outline and Installation Dimension (Dimensions in mm)



- 1.Locknut 2.Sealing washer 3.Inlet connector
4.Sealing ring 5.Washer 6.Middle connector
7.Compression nut

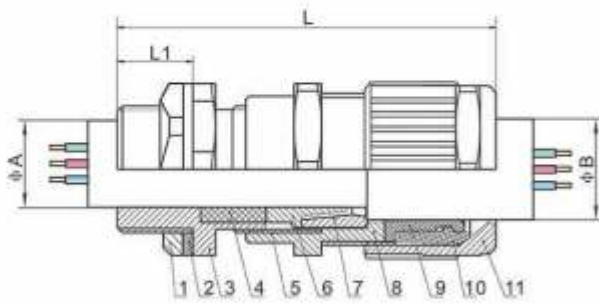
- 1.Locknut 2.Sealing washer 3.Inlet connector
4.Sealing ring 5.Washer 6.Middle connector
7.Compression nut

Mounting thread			Cable outer diameter ϕA (mm)	Thread length L1(mm)	Length L(mm)	Length L2(mm)	Maximum outer diameter (mm)	HLBM-09 Weight (kg)	HLBM-10 Weight (kg)
M	G	NPT							
M16×1.5	—	—	3~8	16	86	101	27	0.10	0.11
M20×1.5A	G1/2A	NPT1/2A	3~8	16	86	101	27	0.12	0.12
M20×1.5B	G1/2B	NPT1/2B	6~11	16	88	103	27	0.10	0.14
M20×1.5C	G1/2C	NPT1/2C	10~14.5	16	88	103	33	0.12	0.14
M25×1.5A	G3/4A	NPT3/4A	10~14.5	16	88	103	33	0.15	0.17
M25×1.5B	G3/4B	NPT3/4B	13~20	16	93	108	33	0.15	0.17
M25×1.5C	G3/4C	NPT3/4C	19~25.5	16	100	115	39	0.16	0.18
M32×1.5A	G1A	NPT1A	13~20	18	95	110	39	0.25	0.28
M32×1.5B	G1B	NPT1B	19~25.5	18	102	117	39	0.25	0.28
M32×1.5C	G1C	NPT1C	25~32	18	109	124	50	0.27	0.30
M40×1.5A	G1 1/4A	NPT1 1/4A	19~25.5	20	104	119	50	0.55	0.58
M40×1.5B	G1 1/4B	NPT1 1/4B	25~32	20	114	129	50	0.50	0.54
M40×1.5C	G1 1/4C	NPT1 1/4C	32~43	20	119	134	60	0.60	0.64
M50×1.5A	G1 1/2A	NPT1 1/2A	25~32	20	114	129	60	0.79	0.84
M50×1.5B	G1 1/2B	NPT1 1/2B	32~43	20	119	134	60	0.69	0.74
M50×1.5C	G1 1/2C	NPT1 1/2C	42.5~55	20	146	161	73	0.86	0.91
M63×1.5A	G2A	NPT2A	32~43	20	119	134	73	0.86	0.92
M63×1.5B	G2B	NPT2B	42.5~55	20	146	161	73	0.84	0.90

- Note:** 1. Locknut and sealing washer (PTFE washer) are supplied for Ex e, n, t type products.
Without lock nut when delivery for Ex d type. Above weight is based on nickel plated brass material.
2. Earth lug and shroud are on request, see Page D/25, 26.
3. The standard pitch of metric thread products is 1.5mm, other pitches can be customized, please specify when ordering.

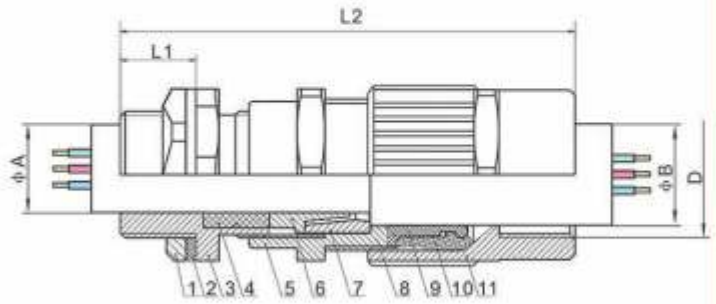
HEXLON

HLBM-13, 14 Series Explosion-proof Cable Glands(Double Seal, Armoured, Unarmoured)



HLBM-13S

- 1.Locknut 2.Sealing washer 3.Inlet connector
- 4.Sealing ring 5.Middle connector 6.Armour cone
- 7.Clamping ring 8.Sealing ring 9.Sealing ring
- 10.Sealing ring loop 11.Compression nut



HLBM-14S

- 1.Locknut 2.Sealing washer 3.Inlet connector
- 4.Sealing ring 5.Middle connector 6.Armour cone
- 7.Clamping ring 8.Sealing ring 9.Sealing ring
- 10.Sealing ring loop 11.Compression nut

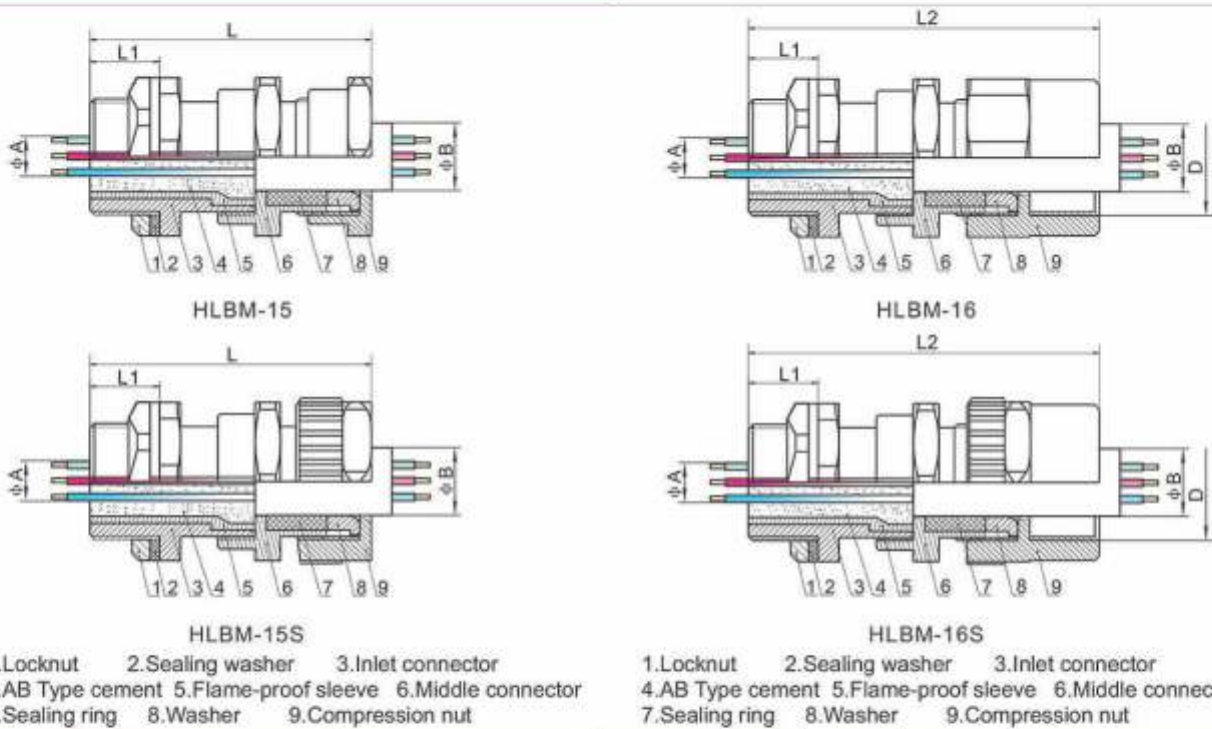
Mounting thread			Cable outer diameter (mm)		Thread length L1(mm)	Length L1 (mm)	Length L2 (mm)	Maximum outer diameter (mm)	HLBM-13 Weight (kg)	HLBM-14 Weight (kg)
M	G	NPT	Outlet φ A	Inlet φ B						
M16×1.5	—	—	4~8	5.5~12	16	79	94	29	0.16	0.17
M20×1.5A	G1/2A	NPT1/2A	4~8	5.5~12	16	79	94	29	0.18	0.20
M20×1.5B	G1/2B	NPT1/2B	6.5~10.5	9.5~16	16	79	94	29	0.16	0.18
M20×1.5C	G1/2C	NPT1/2C	10~14.5	12.5~20.5	16	79	94	37	0.22	0.24
M25×1.5A	G3/4A	NPT3/4A	6.5~10.5	9.5~16	16	79	94	29	0.20	0.22
M25×1.5B	G3/4B	NPT3/4B	10~14.5	12.5~20.5	16	79	94	37	0.26	0.28
M25×1.5C	G3/4C	NPT3/4C	12.5~19.5	17~26	16	87	102	44	0.32	0.34
M32×1.5A	G1A	NPT1A	10~14.5	12.5~20.5	18	81	96	37	0.36	0.39
M32×1.5B	G1B	NPT1B	12.5~19.5	17~26	18	89	104	44	0.40	0.43
M32×1.5C	G1C	NPT1C	19~25.5	22~33	18	96	111	55	0.52	0.55
M40×1.5A	G11/4A	NPT11/4A	12.5~19.5	17~26	18	89	104	44	0.76	0.80
M40×1.5B	G11/4B	NPT11/4B	19~25.5	22~33	18	96	111	55	0.72	0.76
M40×1.5C	G11/4C	NPT11/4C	25~32	28~41	18	103	118	67	1.02	1.06
M50×1.5A	G11/2A	NPT11/2A	19~25.5	22~33	20	98	113	55	1.17	1.22
M50×1.5B	G11/2B	NPT11/2B	25~32	28~41	20	105	120	67	1.11	1.16
M50×1.5C	G11/2C	NPT11/2C	31.5~39	36~52.6	20	128	143	73	1.37	1.42
M63×1.5A	G2A	NPT2A	25~32	28~41	21	106	121	67	1.35	1.40
M63×1.5B	G2B	NPT2B	31.5~39	36~52.6	21	129	144	73	1.28	1.34
M63×1.5C	G2C	NPT2C	42.5~49	46~65	21	116	131	89	1.44	1.42

Note: 1. Locknut and sealing washer (PTFE washer) are supplied for Ex e, n, t type products.
 Without lock nut when delivery for Ex d type. Above weight is based on nickel plated brass material.
 2. Earth lug and shroud are on request, see Page D/25, 26.
 3. The standard pitch of metric thread products is 1.5mm, other pitches can be customized, please specify when ordering.

HEXLON

HLBM-15, 16 Series Explosion-proof Cable Glands(Compound Barrier, Unarmoured)

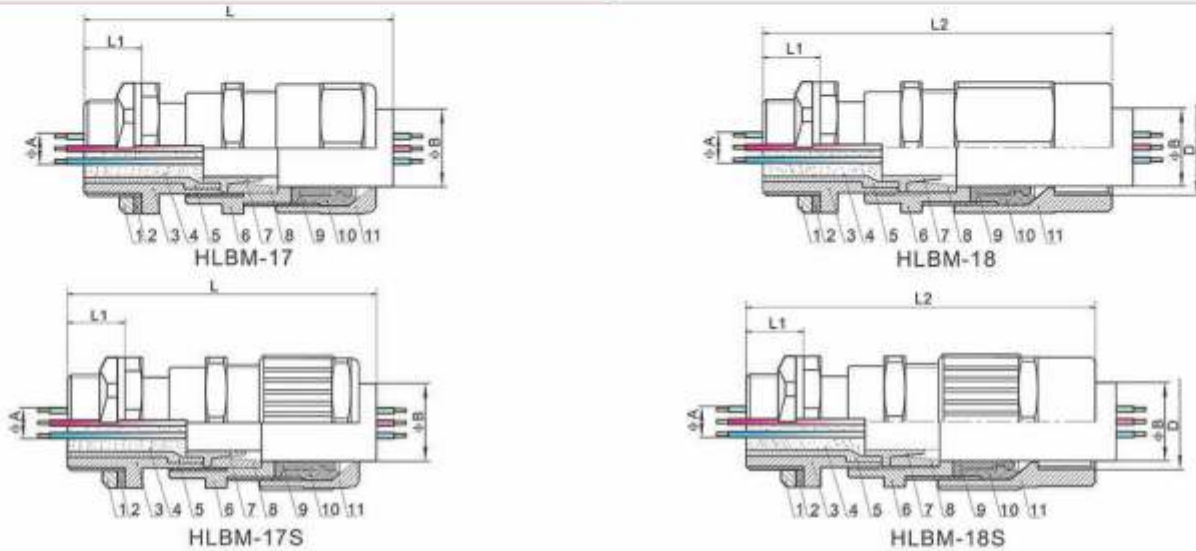
4 Outline and Installation Dimension (Dimensions in mm)



Mounting thread			Cable outer diameter (mm)		Thread length L1(mm)	Length L (mm)	Length L2 (mm)	Maximum outer diameter (mm)	HLBM-15 Weight (kg)	HLBM-16 Weight (kg)
M	G	NPT	Outlet ϕA	Inlet ϕB						
M16×1.5	—	—	9	3~8	16	74	89	27	0.14	0.16
M20×1.5A	G1/2A	NPT1/2A	9	3~8	16	74	89	27	0.17	0.19
M20×1.5B	G1/2B	NPT1/2B	11.5	6~11	16	76	91	27	0.16	0.18
M20×1.5C	G1/2C	NPT1/2C	11.5	10~14.5	16	76	91	33	0.17	0.19
M25×1.5A	G3/4A	NPT3/4A	15	10~14.5	16	76	91	33	0.20	0.22
M25×1.5B	G3/4B	NPT3/4B	15	13~20	16	81	96	33	0.22	0.24
M25×1.5C	G3/4C	NPT3/4C	15	19~25.5	16	89	104	39	0.20	0.22
M32×1.5A	G1A	NPT1A	21	13~20	18	83	98	39	0.30	0.33
M32×1.5B	G1B	NPT1B	21	19~25.5	18	91	106	39	0.36	0.39
M32×1.5C	G1C	NPT1C	21	25~32	18	96	111	50	0.30	0.33
M40×1.5A	G11/4A	NPT11/4A	28	19~25.5	20	93	108	50	0.66	0.70
M40×1.5B	G11/4B	NPT11/4B	28	25~32	20	98	113	50	0.62	0.66
M40×1.5C	G11/4C	NPT11/4C	28	32~43	20	105	120	60	0.66	0.70
M50×1.5A	G11/2A	NPT11/2A	34	25~32	20	98	113	60	0.95	1.00
M50×1.5B	G11/2B	NPT11/2B	34	32~43	20	105	120	60	1.00	1.05
M50×1.5C	G11/2C	NPT11/2C	34	42.5~55	20	117	132	73	0.95	1.00
M63×1.5A	G2A	NPT2A	42	32~43	20	105	120	73	1.02	1.08
M63×1.5B	G2B	NPT2B	42	42.5~55	22	119	134	73	1.35	1.41

Note: 1. Locknut and sealing washer (PTFE washer) are supplied for Ex e, n, t type products, Without lock nut when delivery for Ex d type. Above weight is based on nickel plated brass material.
2. Earth lug and shroud are on request, see Page D/25, 26.
3. The standard pitch of metric thread products is 1.5mm, other pitches can be customized, please specify when ordering.

4 Outline and Installation Dimension (Dimensions in mm)



- 1.Locknut 2.Sealing washer 3.Inlet connector
4.AB Type cement 5.Flame-proof sleeve 6.Middle connector
7.Armour cone 8.Clamping ring 9.Sealing ring
10.Sealing ring loop 11.Compression nut

- 1.Locknut 2.Sealing washer 3.Inlet connector
4.AB Type cement 5.Flame-proof sleeve 6.Middle connector
7.Armour cone 8.Clamping ring 9.Sealing ring
10.Sealing ring loop 11.Compression nut

Mounting thread			Cable outer diameter (mm)		Thread length L1(mm)	Length L (mm)	Length L2 (mm)	Maximum outer diameter (mm)	HLBM-17 Weight (kg)	HLBM-18 Weight (kg)
M	G	NPT	Outlet ϕ A	Inlet ϕ B						
M16×1.5	—	—	7	5.5~12	16	74	89	29	0.18	0.19
M20×1.5A	G1/2A	NPT1/2A	12	5.5~12	16	74	89	29	0.18	0.19
M20×1.5B	G1/2B	NPT1/2B	12	9.5~16	16	74	89	29	0.18	0.20
M20×1.5C	G1/2C	NPT1/2C	12	12.5~20.5	16	74	89	37	0.18	0.19
M25×1.5A	G3/4A	NPT3/4A	12	9.5~16	16	74	89	29	0.22	0.24
M25×1.5B	G3/4B	NPT3/4B	15	12.5~20.5	16	74	89	37	0.28	0.30
M25×1.5C	G3/4C	NPT3/4C	15	17~26	16	81	96	44	0.22	0.24
M32×1.5A	G1A	NPT1A	15	12.5~20.5	18	76	91	37	0.36	0.39
M32×1.5B	G1B	NPT1B	20	17~26	18	83	98	44	0.40	0.43
M32×1.5C	G1C	NPT1C	20	22~33	18	90	105	55	0.36	0.39
M40×1.5A	G11/4A	NPT11/4A	20	17~26	18	83	98	44	0.78	0.82
M40×1.5B	G11/4B	NPT11/4B	27	22~33	18	90	105	55	0.72	0.76
M40×1.5C	G11/4C	NPT11/4C	27	28~41	18	97	112	67	0.78	0.82
M50×1.5A	G11/2A	NPT11/2A	27	22~33	20	92	107	55	1.15	1.20
M50×1.5B	G11/2B	NPT11/2B	34	28~41	20	99	114	67	1.09	1.14
M50×1.5C	G11/2C	NPT11/2C	34	36~52.6	20	120	135	73	1.15	1.20
M63×1.5A	G2A	NPT2A	34	28~41	21	100	115	67	1.24	1.30
M63×1.5B	G2B	NPT2B	43	36~52.6	21	121	136	73	1.44	1.50
M63×1.5C	G2C	NPT2C	43	46~65	21	111	126	89	1.42	1.48

Note: 1. Locknut and sealing washer (PTFE washer) are supplied for Ex e, n, l type products, Without lock nut when delivery for Ex d type. Above weight is based on nickel plated brass material.
2. Earth lug and shroud are on request, see Page D/25, 26.
3. The standard pitch of metric thread products is 1.5mm, other pitches can be customized, please specify when ordering.