



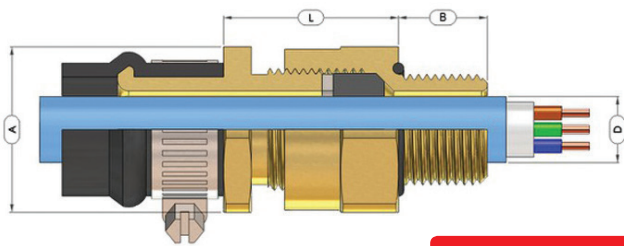
PRODUCT TYPE A*LCH

Single seal gland featuring a Hose Connection

Ex d : Ex e : Ex nR : Ex ta : IP66 : IP68

PART NUMBERS:

A	1	LCH	B	F
	2		S	
	3		A	
	4			



REFERENCE NUMBER: 2.5.0

PRODUCT DESCRIPTION

"A*LCH" type glands are certified Flameproof Ex d, Increased Safety Ex e, Restricted Breathing Ex nR and Dust Protected Ex ta. They are suitable for use in Zone 1 and 2 for Gas Groups IIA, IIB and IIC and additionally for use in Zones 20, 21 and 22 for Dust Groups IIIA, IIIB and IIIC. Commonly referred to as "stuffing glands", they provide a controlled pull resistant environmental displacement seal on the cable outer sheath, minimising damage to cables that exhibit "cold flow" characteristics. The gland maintains IP66 & IP68 to 50 metres. It is supplied with an IP O-ring seal as standard on metric entry threads. The gland features an extended tail for connection of suitable hose.

COMPLIANCE STANDARDS:

EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 60079-31
IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31 & IEC 60529

EXAMPLE PART NUMBERING:
A2LCHBF/NP/20-1/M20

A	Gland featuring controlled displacement sealing
2	Neoprene Seals (2) - Silicone (3) - Neoprene/Lead (1) - Silicone/Lead (4)
LCH	Fixed Hose Connection
B	Aluminium (A) / Brass (B) / Stainless Steel (S)
F	Multiple Certification
NP	Nickel Plated
20-1	Gland & Connector Size
M20	M20 x 1.5mm Male Entry Thread

OPTIONAL ACCESSORIES:

LOCKNUT	Brass (ACBLN) / St Steel (ACSLN) / Aluminium (ACALN)
EARTH TAG	Brass (ACBET) / Stainless Steel (ACSET) / Aluminium (ACAET)
IP WASHERS	Nylon (ACNSW) / Fibre (ACFSW)
SERRATED WASHERS	Stainless Steel (ACSSW)

IP RATING:	IP66 & IP68 (50 metres - 7 Days)
OPERATING TEMP:	Neoprene Seals -35°C to +90°C / Silicone Seals -60°C to +180°C
MATERIALS:	Aluminium, Brass or Stainless Steel
PLATING:	Electroless Nickel

CERTIFICATION:

ATEX	II 1D 2G Ex d IIC Gb / Ex e IIC Gb / Ex ta IIC Da II 3G Ex nR IIC Gc
IECEx	Ex d IIC Gb / Ex e IIC Gb / Ex ta IIC Da
EAC	Ex d IICU / Ex e IIU / Ex nR IIU
INMETRO - Brazil	Ex d IIC Gb / Ex e IIC Gb / Ex ta IIC Da / Ex nR IIC Gc
SAC - China	Ex d IIC / Ex e IIC
UKRAINE	Ex d IIC X / Ex e II X
CCoE	Petroleum Rules 2002 (PESO)
ABS	Specified ABS Rules
LLOYD'S	Enclosure Systems (Part 1B)
RMRS	Part XI of RS Rules for the classification & construction of sea-going ships (ed. 2014)

CERTIFICATION No:

ATEX	SIRA 01ATEX1272X & SIRA 09ATEX1221X
IECEx	IECEx SIR 07.0096X
EAC	RU C-GB.F506.B.00098
INMETRO - Brazil	NCC 13.2012 X
UKRAINE	UA.TR.047.C.0408-13 & 2937
CCoE - India	PESO P365300/2 & P365300/5
ABS	14-LD463991-1- PDA
LLOYD'S	10/00056(E1)
RMRS	14.02755.315

CABLE GLAND SELECTION TABLE
(ALL DIMENSIONS IN mm)

Gland & Connector Size	Entry Thread Size		ISO Thread Length [B]	Cable Acceptance Details Outer Sheath [D]		Typical Hose Diameter I/D	Nominal Protrusion Length [L]	Dimensions/Weight (Metric Versions)		
	Metric	Metric		Min	Max			Across Flats [A]	Across Corners	Weight Kgs
12-1	M12 x 1.5	3/8"	16	0.9	6.0	16.0	26	19.0	20.9	0.051
12-2	M16 x 1.5	3/8" or 1/2"	16	0.9	6.0	16.0	25	25.4	28.0	0.092
16-1	M16 x 1.5	3/8" or 1/2"	16	4.0	8.4	16.0	30	25.4	28.0	0.118
20S-1	M20 x 1.5	1/2" or 3/4"	16	7.2	11.7	16.0	35	25.4	28.0	0.122
20S-2	M20 x 1.5	1/2" or 3/4"	16	7.2	11.7	19.2	35	25.4	28.0	0.142
20-1	M20 x 1.5	1/2" or 3/4"	16	9.4	14.0	19.2	35	30.0	33.0	0.159
25-1	M25 x 1.5	3/4" or 1"	16	13.5	20.0	25.5	35	37.6	41.4	0.247
25-2	M25 x 1.5	3/4" or 1"	16	13.5	20.0	31.9	35	37.6	41.4	0.339
32-1	M32 x 1.5	1" or 1 1/4"	16	19.5	26.3	31.9	35	46.0	50.6	0.339
40-1	M40 x 1.5	1 1/4" or 1 1/2"	16	23.0	32.2	38.2	38	55.0	60.5	0.537
50S-1	M50 x 1.5	1 1/2" or 2"	16	28.1	38.2	50.9	38	65.0	71.5	0.768
50-1	M50 x 1.5	2"	16	33.1	44.1	50.9	38	80.0	71.5	0.710
63S-1	M63 x 1.5	2" or 2 1/2"	19	39.2	50.1	63.6	38	80.0	88.0	1.218
63-1	M63 x 1.5	2"	19	46.7	56.0	63.6	38	90.0	88.0	1.122
75S-1	M75 x 1.5	2 1/2"	19	52.1	62.0	76.3	38	90.0	99.0	1.557
75-1	M75 x 1.5	2 1/2" or 3"	19	58.0	68.0	76.3	38	90.0	99.0	1.472
80-1	M80 x 2.0	3" or 3 1/2"	25	62.2	72.0	76.3	50	104.0	115.2	1.920

NOTES

- Gland size does not necessarily equate to the entry thread size.
- The IP O-ring seal is only available on metric entry threads. IP washers can be supplied for tapered entry threads.
- Dimensions (A) & (B) may differ for glands with non metric entry threads. Please refer to our "Thread Reference Tables" for specific dimensions.
- Assembly instructions must be read prior to installation and adhered to in full.
- Peppers supplies cable glands with parallel entry threads that conform to the flameproof threaded joint requirements of IEC/EN 60079-1 and other equivalent standards. They usually incorporate a thread run out according to the available machining techniques and will not have a full form thread for the entire length.

- Peppers Cable Glands Limited will not be held responsible for clients' installations where this has not been taken into account.
- When selecting IP Washer material for gland kits, please be aware of the accessories temperature range to ensure they are suitable for the intended installation.
- Where approval in addition to ATEX, IECEx and CSA is required, this must be clearly requested at time of enquiry / order.
- It is the installer's responsibility to ensure that the hose is secured correctly with a suitable hose clip.
- If fit testing is required for specific hosing please contact Peppers.