



国家防爆

Electrical Apparatus for Explosive Atmospheres

CERTIFICATE OF CONFORMITY

Cer. No.: CNEx17.2858X

Applicant Hawke International
A Division of Hubbell Limited A Member of the Hubbell Group of Company
Oxford Street West Ashton-Under-Lyne Lancashire OL7 0NA
United Kingdom

Name of Product Cable Glands

Type of Product 501/421,501/423,501/452RAC,501/453,501/453RAC,PSG553,PSG553RAC,501/414, SB474 and PSG421

Marking Ex d IIC Gb/Ex e IIC Gb/Ex nR IIC Gc/ Ex tD A21 IP66 (-60°C ≤ Ta ≤ +100°C or 80°C (Iris type seal)

Standard/ Specification ---

Drawing No. 501/421 Issue J, 501/421 (G to J) Issue F, 501/423 Issue J, 501/423 (G to J) Issue F, 501/453 RAC Issue J, 501/453 Dedicated Issue J, 501/453 Dedicated (G to J) Issue G, PSG 553 RAC Issue J, PSG553 Dedicated Issue J, 501/414 Issue J, SB474 Issue H, 501/452RAC Issue J, PSG421 Issue A

The drawings, technical documents and the samples are verified and certified according to standard(s) for safety as below:

GB3836.1-2010 Explosive atmospheres - Part 1: General Requirements
GB3836.2-2010 Explosive atmospheres -Part 2: Equipment protection by flameproof enclosures "d"
GB3836.3-2010 Explosive atmospheres -Part 3: Equipment protection by increased safety "e"
GB3836.8-2014 Electrical apparatus- Part 8: Equipment protection by type of protection "n"
GB12476.1-2013 Electrical apparatus for use in the presence of combustible dust- Part 1: General requirement
GB12476.5-2013 Electrical apparatus for use in the presence of combustible dust- Part 5: Protection by enclosures "tD"

Note See the annex

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Issue Date August 20, 2017

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1. These glands are suitable for use within an operating temperature range of -60°C to $+80^{\circ}\text{C}$.
2. When the gland is used for increased safety or dust protection, the entry thread shall be suitably sealed to maintain the ingress protection rating of the associated enclosure.
3. Glands for use with conduit, unarmoured or braided cables are only suitable for fixed installations, the cable for which must be effectively clamped to prevent pulling and twisting.
4. The alternative thread of the entry thread can be the following form: PG, BSPP, BSPT, NPSM and ET (Imperial Conduit).
5. When used with lead sheathed cables the gland type reference will include a letter "L".

Cable Gland Selection Table for PSG553

Size Ref	Male Entry Thread Size		Outer Sheath		Armour Clamping			Max Length	Hexagon Dimensions	
	Metric	NPT	Min	Max	Std Steel Wire W	Wire Braid 'X'	Strip/Tape 'Z'		Across Flats	Across Corners
A	M20	1/2"-3/4"	12.5	20.5	0.8/1.25	0.2/0.35	0.2/0.8	78	30.0	34.6
B	M25	3/4"-1"	16.9	26.0	1.25/1.6	0.2/0.45	0.2/1.0	83	36.0	41.6
C	M32	1"-1 1/4"	22.0	33.0	1.6/2.0	0.2/0.45	0.2/1.4	87	46.0	53.1

PUNCHTOOL SIZE DETAILS

Punch Ref.	No. 1	No. 1	No. 2	No. 2	No. 3
Core C. S. A mm ²	1.5	2.5	4.0	6.0	10.0

Cable Gland Size for Conductor

Maximum No of cores	Cores Cross Sectional Area mm ²				
	1.5	2.5	4.0	6.0	10.0
7	A&B	A&B	B&C	C	C
4	---	---	---	B	---
3	---	---	---	---	B

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Cable Gland Selection Table for SB 474							
Size Ref	Male Entry Thread Size		Female Entry Thread Size		Max Length	Hexagon Dimensions	
	Metric	NPT	Metric	NPT		Across Flats	Across Corners
A	M20	1/2"	M20	1/2"-3/4"	69	30.0	34.6
B	M25	3/4"-1"	M25	3/4"-1"	61	36.0	41.6
C	M32	1"-1 1/4"	M32	1"-1 1/4"	77	46.0	53.1

PUNCHTOOL SIZE DETAILS					
Punch Ref.	No. 1	No. 1	No. 2	No. 2	No. 3
Core C. S. A mm ²	1.5	2.5	4.0	6.0	10.0

Cable Gland Size for Conductor					
Maximum No of cores	Cores Cross Sectional Area mm ²				
	1.5	2.5	4.0	6.0	10.0
7	A&B	A&B	B&C	C	C
4	---	---	---	B	---
3	---	---	---	---	B

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Cable Gland Selection Table for PSG553 RAC

Size Ref	Male Entry Thread Size		Outer Sheath		Steel Wire Armour/Tape/Braid		Max Length	Hexagon Dimensions	
	Metric	NPT	Min	Max	Standard Ring	Alternative Ring		Across Flats	Across Corners
A	M20	1/2"-3/4"	12.5	20.5	0/0.8, 0.8/1.25		80	30.0	34.6
B	M25	3/4"-1"	16.9	26.0	0/0.7, 1.25/1.6	0.5-0.9, 0.9-1.25	88	36.0	41.6
C	M32	1"-1 1/4"	22.0	33.0	0/0.7, 1.6/2.0	0.6-1.2, 1.2-1.6	95	46.0	53.1

PUNCHTOOL SIZE DETAILS

Punch Ref.	No. 1	No. 1	No. 2	No. 2	No. 3
Core C. S. A mm ²	1.5	2.5	4.0	6.0	10.0

Cable Gland Size for Conductor

Maximum No of cores	Cores Cross Sectional Area mm ²				
	1.5	2.5	4.0	6.0	10.0
7	A&B	A&B	B&C	C	C
4	---	---	---	B	---
3	---	---	---	---	B

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CABLE GLAND SELECTION TABLE FOR 501/414

Size Ref	Male Entry Thread Size		Female Entry Thread Size		Cable Acceptance Details				Max length	Hexagon Dimensions	
	Metric	NPT	Metric	NPT	Outer Sheath		Alternative seal (S)	Across flats		Across corners	
					Standard Seal						
											Min
Os	M20	1/2"	M20	1/2"	3.2	8.0	---	---	69	24.0	27.7
O	M20	1/2"	M20	1/2"	6.5	11.9	---	---	69	24.0	27.7
A	M20	1/2"-3/4"	M20	1/2" - 3/4"	10.0	14.3	9.0	13.4	69	30.0	34.6
B	M25	3/4"-1"	M25	3/4" -1"	13.0	20.2	9.5	15.4	61	36.0	41.6
C	M32	1"-1 1/4"	M32	1"-11/4"	19.0	26.5	15.5	21.2	77	46.0	53.1
C2	M40	1 1/4"-1 1/2"	M40	11/4"-11/2"	25.0	32.5	22.0	28.0	79	55.0	63.5
D	M50	1 1/2"-2"	M50	2"	31.5	42.3/44.4	27.5	34.8	105	65.0	75.1
E	M63	2"-2 1/2"	M63	2" - 21/2"	42.5	54.3/56.3	39.0	46.5	105	80.0	92.4
F	M75	2 1/2"-3"	M75	21/2" -3"	54.5	65.3/68.2	48.5	58.3	107	95.0	109.6

- Sizes Os and O are available with an M16 thread size. If M16 entry is used on O size Cable Glands the maximum cable inner sheath diameter is limited to 10.9mm

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CABLE GLAND SELECTION TABLE FOR TYPE 501/453

Size ref.	Entry thread size		Cable Acceptance Details													Max Length	Hexagon dimensions		
			Inner Sheath								Outer Sheath		Stand ard Steel Wire "W"	Wire Braid "X"	Strip/ Tape "Z"				
	01 Standard Seal 3062	02 Alternative Seal (S) 3005	*03 Seal with 3045 fitted		*04 Seal with 3045 fitted		Min	Max	Min	Max									
	Metric	NPT	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max						Across flats	Across corners
Os	M20 •	1/2"	3.0	8.0	—	—	—	—	—	—	5.5	12.0	0.9/ 1.25	0.2/ 0.35	0.2/0.8	76	24.0	27.7	
0	M20 •	1/2"	6.5	11.9	—	—	6.5	13.0	—	—	9.5	16.0	0.9/ 1.25	0.2/ 0.35	0.2/0.8	76	24.0	27.7	
A	M20	1/2"– 3/4"	10.0	14.3	8.5	13.4	—	—	8.5	10.8	12.5	20.5	0.9/ 1.25	0.2/ 0.35	0.2/0.8	78	30.0	34.6	
B	M25	3/4"– 1"	12.5	20.2	9.5	15.4	12.5	19.0	9.5	15.4	16.9	26.0	1.25/ 1.6	0.2/ 0.35	0.2/1.0	83	36.0	41.6	
C	M32	1"– 1 1/4"	19.0	26.5	14.5	21.2	19.0	25.0	14.5	21.2	22.0	33.0	1.6/ 2.0	0.2/ 0.35	0.2/1.4	87	46.0	53.1	
C2	M40	1 1/4"– 1 1/2"	25.0	32.5	22.0	28.0	25.0	31.2	22.0	28.0	28.0	41.0	1.6/ 2.0	0.3/ 0.45	0.2/1.8	94	55.0	63.5	
D	M50	1 1/2"– 2"	31.5	42.3/ 44.4	27.5	34.8	31.5	42.3/ 42.8	27.5	34.8	36.0	52.6	2.0/ 2.5	0.4/ 0.45	0.2/1.8	114	65.0	75.1	
E	M63	2"– 2 1/2"	42.5	54.3/ 56.3	39.0	46.5	42.5	53.3/ 54.5	39.0	46.5	46.0	65.3	2.5	0.4/ 0.45	0.2/1.8	110	80.0	92.4	
F	M75	2 1/2"– 3"	54.5	65.3/ 68.2	48.5	58.3	54.5	64.3/ 66	48.5	58.3	57.0	78.0	2.5	0.4/ 0.45	0.2/1.8	115	95.0	109.6	
G	M80	3 1/4"	67.0	73.0	—	—	67.0	68.5	—	—	75.0	89.5	3.15	0.3/ 0.45	0.4/0.8	121	106.4	123.0	
H	M90	3 1/2"	67.0	77.6	—	—	67.0	73.1	—	—	75.0	89.5	3.15	0.3/ 0.45	0.4/0.8	121	115.0	132.8	
J	M100	4"	75.0	91.6	—	—	75.0	87.1	—	—	88.0	104.5	4.0	0.3/ 0.45	0.4/0.8	121	127.0	146.7	

● Sizes Os and 0 are available with an M16 thread size. If M16 entry is used on 0 size Cable Glands the maximum cable inner sheath diameter is limited to 10.9mm.

* When earth connection device is fitted for use with lead sheath cables the maximum diameter over lead sheath is as per column '03 and 04' in this table.

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CABLE GLAND SELECTION TABLE FOR TYPE 501/453RAC																	
Size ref.	Entry thread size		Cable Acceptance Details											Max Length	Hexagon dimensions		
			Inner Sheath/								Outer Sheath		Steel Wire Armour/ Tape/ Braid				
			01 Standard Seal 3062		02 Alternative Seal 3005		* 03 Seal with 3045 fitted		* 04 Seal with 3045 fitted				Standard Ring		Alt Ring	Across flats	Across corners
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max							
Os	M20 •	1/2"	3.0	8.0	—	—	—	—	—	—	5.5	12.0	0/0.8, 0.8/1.25	0.4/0.8 0.8/1.0	81	24.0	27.7
0	M20 •	1/2"	6.5	11.9	—	—	6.5	10.5	4.0	8.0	9.5	16.0	0/0.8, 0.8/1.25	0.4/0.8 0.8/1.0	81	24.0	27.7
A	M20	1/2"-3/4 "	10.0	14.3	8.5	13.4	—	—	8.5	13.0	12.5	20.5	0/0.8, 0.8/1.25	0.4/0.8 0.8/1.0	83	30.0	34.6
B	M25	3/4"-1"	12.5	20.2	9.5	15.4	12.5	19.0	9.5	15.4	16.9	26.0	0/0.7, 1.25/1.6	0.5/0.9 0.9/1.25	95	36.0	41.6
C	M32	1"-1 1/4"	19.0	26.5	15.5	21.2	19.0	25.0	14.5	21.2	22.0	33.0	0/0.7 1.6/2.0	0.6/1.2 1.2/1.6	98	46.0	53.1
C2	M40	1 1/4"- 1 1/2"	25.0	32.5	22.0	28.0	25.0	31.2	22.0	28.0	28.0	41.0	0/0.7 1.6/2.0	0.6/1.2 1.2/1.6	105	55.0	63.5
D	M50	1 1/2"- 2"	31.5	42.3/ 44.4	27.5	34.8	31.5	42.3/ 42.8	27.5	34.8	36.0	52.6	0/1.0, 1.8/2.5	1.0/1.45 1.45/1.8	133	65.0	75.1
E	M63	2"- 2 1/2"	42.5	54.3/ 56.3	39.0	46.5	42.5	53.3/ 54.5	39.0	46.5	46.0	65.3	0/1.0, 1.8/2.5	1.0/1.45 1.45/1.8	126	80.0	92.4
F	M75	2 1/2"- 3"	54.5	65.3/ 68.2	48.5	58.3	54.5	64.3/ 66	48.5	58.3	57.0	78.0	0/1.0, 1.8/2.5	1.0/1.45 1.45/1.8	134	95.0	109.6

* When earth connection device is fitted for use with lead sheath cables the maximum diameter over lead sheath is as per column '03 and 04' in this table.

● Sizes Os and 0 are available with an M16 thread size. If M16 entry is used on 0 size Cable Glands the maximum cable inner sheath diameter is limited to 10.9 mm.

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CABLE GLAND SELECTION TABLE FOR TYPE 501/421													
Size ref.	Entry thread size		Cable Acceptance Details								Max Length	Hexagon dimensions	
			Outer Sheath										
			N1 Standard Seal 3062		N2 Alternative Seal (S) 3005		*N3 Seal with 3045 fitted		*N4 Seal with 3045 fitted			Across flats	Across corners
	Min	Max	Min	Max	Min	Max	Min	Max					
Os	M20 •	1/2"	3.2	8.0	—	—	—	—	—	—	38	24.0	27.7
O	M20 •	1/2"	6.5	11.9	—	—	7.5	10.5	4.0	8.0	39	24.0	27.7
A	M20	1/2"-3/4 "	11.0	14.3	8.5	13.4	—	—	8.5	13.0	38	30.0	34.6
B	M25	3/4"-1"	13.0	20.2	9.5	15.4	13.0	19.0	11.0	15.4	41	36.0	41.6
C	M32	1"-1 1/4"	19.0	26.5	14.5	21.2	19.0	25.0	15.5	21.2	43	46.0	53.1
C2	M40	1 1/4"- 1 1/2"	25.0	32.5	22.0	28.0	25.0	31.2	22.0	28.0	42	55.0	63.5
D	M50	1 1/2"- 2"	31.5	42.3/ 44.4	27.5	34.8	31.5	42.3/ 42.8	27.5	34.8	58	65.0	75.1
E	M63	2"- 2 1/2"	42.5	54.3/ 56.3	39.0	46.5	42.5	53.3/ 54.5	39.0	46.5	53	80.0	92.4
F	M75	2 1/2"- 3"	54.5	65.3/ 68.2	48.5	58.3	54.5	64.3/ 66	48.5	58.3	56	95.0	109.6
2K	M16	—	—	8.0	—	—	—	—	—	—	39.0	—	—
G	M80	3 1/4"	67.0	73.0	—	—	67.0	68.5	—	—	56	106.4	123.0
H	M90	3 1/2"	67.0	77.6	—	—	67.0	73.1	—	—	56	115.0	132.8
J	M100	4"	75.0	91.6	—	—	75.0	87.1	—	—	56	127.0	146.7

● Sizes Os and O are available with an M16 thread size. If M16 entry is used on O size Cable Glands the maximum cable inner sheath diameter is limited to 10.9mm

* When earth connection device is fitted for use with lead sheath cables the maximum diameter over lead sheath is as per column 'N3, N4' in this table.

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CABLE GLAND SELECTION TABLE FOR TYPE 501/423													
Size ref.	Entry thread size		Cable Acceptance Details								Max Length	Hexagon dimensions	
			Outer Sheath										
			N1 Standard Seal 3062		N2 Alternative Seal (S) 3005		* N3 Seal with 3045 fitted		* N4 Seal with 3045 fitted			Across flats	Across corners
	Metric	NPT	Min	Max	Min	Max	Min	Max	Min	Max			
Os	M20	1/2"	3.2	8.0	—	—	—	—	—	—	67	24.0	27.7
O	M20	1/2"	6.5	11.9	—	—	7.5	10.5	4.0	8.0	68	24.0	27.7
A	M20	1/2"-3/4"	10.0	14.3	8.5	13.4	—	—	8.5	13.0	64	30.0	34.6
B	M25	3/4"-1"	13.0	20.2	9.5	15.4	13.0	19.0	11.0	15.4	69	36.0	41.6
C	M32	1"-1 1/4"	19.5	26.5	14.5	21.2	19.0	25.0	15.5	21.2	72	46.0	53.1
C2	M40	1 1/4"-1 1/2"	25.0	32.5	22.0	28.0	25.0	31.2	22.0	28.0	73	55.0	63.5
D	M50	1 1/2"-2"	31.5	42.3/ 44.4	27.5	34.8	31.5	42.3/ 42.8	27.5	34.8	100	65.0	75.1
E	M63	2"-2 1/2"	42.5	54.3/ 56.3	39.0	46.5	42.5	53.3/ 54.5	39.0	46.5	98	80.0	92.4
F	M75	2 1/2"-3"	54.5	65.3/ 68.2	48.5	58.3	54.5	64.3/ 66	48.5	58.3	100	95.0	109.6
G	M80	3 1/4"	67.0	73.0	—	—	67.0	68.5	—	—	100	106.4	123.0
H	M90	3 1/2"	67.0	77.6	—	—	67.0	73.1	—	—	100	115.0	132.8
J	M100	4"	75.0	91.6	—	—	75.0	87.1	—	—	100	127.0	146.7

- Sizes Os and O are available with an M16 thread size. If M16 entry is used on O size Cable Glands the maximum cable inner sheath diameter is limited to 10.9mm
- * When earth connection device is fitted for use with lead sheath cables the maximum diameter over lead sheath is as per column 'N3, N4' in this table.

Valid Date From August 20, 2017 to August 19, 2022

Issue Date August 20, 2017

Director

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CABLE GLAND SELECTION TABLE FOR TYPE 501/452RAC																	
Size ref.	Entry thread size		Cable Acceptance Details												Max Length	Hexagon dimensions	
			Inner Sheath/Cores								Outer Sheath		Steel Wire Armour/ Tape/ Braid				
			01Standard Seal 3062		02 Alternative Seal (S) 3005		*03 Seal with 3045 fitted		*04 Seal with 3045 fitted							Standard Ring	Alt Ring
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max							
0s	M20 •	1/2"	3.2	8.0	—	—	—	—	—	—	5.5	12.0	0/0.7, 0.9/1.25	0.4/0.8 0.8/1.0	81	24.0	27.7
0	M20 •	1/2"	6.5	11.9	—	—	6.5	10.5	4.0	8.0	9.5	16.0	0/0.7, 0.9/1.25	0.4/0.8 0.8/1.0	81	24.0	27.7
A	M20	1/2"~ 3/4"	10.0	14.3	9.0	13.4	—	—	8.5	13.0	12.5	20.5	0/0.7, 0.9/1.25	0.4/0.8 0.8/1.0	83	30.0	34.6
B	M25	3/4"~ 1"	12.5	20.2	9.5	15.4	12.5	19.0	9.5	15.4	16.9	26.0	0/0.7, 1.25/1.6	0.5/0.9 0.9/1.25	95	36.0	41.6
C	M32	1"~ 1 1/4"	19.5	26.5	15.5	21.2	19.0	25.0	14.5	21.2	22.0	33.0	0/0.7 1.6/2.0	0.6/1.2 1.2/1.6	98	46.0	53.1
C2	M40	1 1/4"~ 1 1/2"	25.0	32.5	22.0	28.0	25.0	31.2	22.0	28.0	28.0	41.0	0/0.7 1.6/2.0	0.6/1.2 1.2/1.6	105	55.0	63.5
D	M50	1 1/2"~ 2"	31.5	42.3/ 44.4	27.5	34.8	31.5	42.3/ 42.8	27.5	34.8	36.0	52.6	0/1.0, 1.8/2.5	1.0/1.45 1.45/1.8	133	65.0	75.1
E	M63	2"~ 2 1/2"	42.5	54.3/ 56.3	39.0	46.5	42.5	53.3/ 54.5	39.0	46.5	46.0	65.3	0/1.0, 1.8/2.5	1.0/1.45 1.45/1.8	126	80.0	92.4
F	M75	2 1/2"~ 3"	54.5	65.3/ 68.2	48.5	58.3	54.5	64.3/ 66	48.5	58.3	57.0	78.0	0/1.0, 1.8/2.5	1.0/1.45 1.45/1.8	134	95.0	109.6

* When earth connection device is fitted for use with lead sheath cables the maximum diameter over lead sheath is as per column '03 and 04' in this table.

● Sizes 0s and 0 are available with an M16 thread size. If M16 entry is used on 0 size Cable Glands the maximum cable inner sheath diameter is limited to 10.9 mm.

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Cable Gland Selection Table for PSG 421											
Size Ref	Male Entry Thread Size						“P” thread lengths				
	Metric	Imperial	Pg	BSPP BSPT	NPT	NP SM	Metric Imperial Pg	BSPP NPSM	BSPT	NPT	NPSM
O	M20	3/4"	16.0	1/2"	1/2"	1/2"	15.0	15.0	18.6	22.5	15.0
				3/4"	3/4"	3/4"			20.0	22.8	
A	M20	3/4"	16.0	1/2"	1/2"	1/2"	15.0	15.0	18.6	22.5	15.0
				3/4"	3/4"	3/4"			20.0	22.8	
B	M25	1"	21.0	3/4"	3/4"	3/4"	15.0	15.0	20.0	22.8	15.0
				1"	1"	1"			20.0	23.7	
C	M32	1 1/4"	29.0	1"	1"	1"	15.0	20.0	23.7	27.7	20.0
				1 1/4"	1 1/4"	1 1/4"			26.0	28.3	

PUNCHTOOL SIZE DETAILS					
Punch Ref.	No. 1	No. 1	No. 2	No. 2	No. 3
Core C. S. A mm ²	1.5	2.5	4.0	6.0	10.0

Cable Gland Size for Conductor					
Maximum No of cores	Cores Cross Sectional Area mm ²				
	1.5	2.5	4.0	6.0	10.0
7	A&B	A&B	B&C	C	C
4	0	---	---	B	---
3	---	0	---	---	B

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