

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx ICS 20.0026X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2020-06-22		
Applicant:	Pratley Manufacturing (Pty) Limited Jackson Street Factoria Krugersdorp Republic of South Africa South Africa		
Equipment:	Flameproof Adaptors & Reducers		
Optional accessory:			
Type of Protection:	Various		
Marking:	Ex db I Mb, Ex db IIC Gb,		
	Ex eb I Mb, Ex eb IIC Gb,		
	Ex nR IIC Gc, Ex ta IIIC Da.		
	IP66/68 (350m)		
Approved for issue of Certification Body:	on behalf of the IECEx	Roelof Viljoen	
Position:		Certification Authority	
Signature: (for printed version)		<u>J</u>	
Date:		2020-06-22	
2. This certificate is	nd schedule may only be reproduced in full. s not transferable and remains the property of authenticity of this certificate may be verified	f the issuing body. by visiting www.iecex.com or use of this QR	Code.

Certificate issued by:

South Africa Mining and Surface Certification (MASC) 45 Jurg Street Lelyta Park Unit 5 Hennopspark Ext 87, Centurion, 0157, Gauteng South Africa





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Date of issue: 2020-06-22 Issue No: 0

Manufacturer: Pratley Manufacturing (Pty) Limited

Jackson Street Factoria Krugersdorp

Republic of South Africa

South Africa

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS:

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" Edition:7.0

IEC 60079-15:2017 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"

Edition:5.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

Edition:2

Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

IEC 60079-7:2015 Edition:5.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

ZA/ICS/ExTR20.0016/00

Quality Assessment Report:

GB/SIR/OAR06.0042/06



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The range of flameproof adaptors and reducers are manufactured from brass, 304 or 316 stainless steel. The body comprises of two types of threads on opposite sides to each other for male and female thread engagement with typically an enclosure and gland.

A sealing gasket is utilized on the male threaded part to maintain an ingress protection rating of IP66 and IP68 with the degree of protection IPX8 corresponding to an immersion of up to 350 meters under water.

The rated service temperature of the adaptors and reducers is -35°C to 120°C.

The range of flameproof adaptors and reducers are as follows: Refer to Annex of cerificate.

SPECIFIC CONDITIONS OF USE: YES as shown below: Special conditions of use:

- The adaptors and reducers shall only be used at a service temperature between -35°C and 120°C.
- The adaptors shall not be used in conjunction with a blanking device. In addition, only one adaptor shall be installed in any one cable entry.
- The appropriate ingress protection level / restricted breathing and / or flameproof characteristics must be achieved and maintained at the interface of the adaptor or reducer with the enclosure and gland.

Conditions of Manufacture:

None

Annex:

Annex to Certificate 20.0026X.pdf



IECEx Certificate of Conformity – Annex



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Electrical Apparatus: Flameproof Adaptors & Reducers

1. EQUIPMENT

The range of flameproof adaptors and reducers are manufactured from brass, 304 or 316 stainless steel. The body comprises of two types of threads on opposite sides to each other for male and female thread engagement with typically an enclosure and gland.

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The rated service temperature of the adaptors and reducers is -35°C to 120°C.

The range of flameproof adaptors and reducers are as follows:

															FFN	ΛΔΙF	THR	EΔD													
		METRIC NPT													FEMALE THREAD							Р	G			II	IMPERIAL				
	Metric	M16	M20	M25		M40	M50	M63	M75	0.25"	0.5"	0.75"	1"	1.25"	1.5"	2"	2.5"	3"	11	13.5	16	21	29	36	42	48	0.75"	1"	1.5"	2"	2.5"
	M16		52078								71244								71200	71201											
	M20	51068		52079	52077					46999	47000	71245							71202	71203	71204						70097				
	M25	53000	51069		52080	52081					71246	71247	71248						71205	71206	71207	71208						70098			
	M32	53001	51071	51070		52082	52083				71249	71250	71251	71252					71209	71210	71211	71212	71213								
	M40	53002	51074	51073	51072		52084				71253	71254	71255	71256	71257				71214	71215	71216	71217	71218	71219					70099		
	M50	53003	51078	51077	51076	51075		52085			71258	71259	71260	71261	71262	71263			71220	71221	71222	71223	71224	71225	71226	71227				70100	
	M63	53004	53005	53006	51079	51080	51081		52086		71264	71265	71266	71267	71268	71269	71270		71228	71229	71230	71231	71232	71233	71234	71235					70101
	M75	53007	53008	53009	53010	51084	51085	51086			71271	71272	71273	71274	71275	71276	71277	71278	71236	71237	71238	71239	71240	71241	71242	71243					
	NPT																														
	0.5"	47200	47001	47202								47100							47250	47251	47252										
	0.75"	47203	47002	47003	47205						47105		47101						47253	47254	47255	47256									
	1"	_	47004	47005		47208					47106	47107		47102					47257	47258	47259	47260	47261								
	1.25"	47209	47210	47006	47007	47211	47212				47108	47109	47110		47103				47262	47263	47264	47265	47266	47267							
	1.5"	47213	47214	47215	47216	47217	47218	47219			47111	47112	47113	47115		47104			47268	27269	27270	47271	47272	47273	47274	47275					
	2"	47220	47221	47222	47223	47224	47225	47226	47227		47116	47117	47118	47119	47120		47121		47276	47277	47278	47279	47280	47281	47282	47283					
	2.5"	47228	47229	47230	47231	47232	47233	47234	47235		47122	47123	47124	47125	47126	47127		47128	47284	47285	47286	47287	47288	47289	47290	47291					
	3"	47236	47237	47238	47239	47240	47241	47242	47243		47129	47130	47131	47132	47133	47134	47135		47292	47293	47294	47295	47296	47297	47298	47299					
	NPS																														
Q	3"																														
THREA	BSP																														
뚝	0.5"	_	47402	47403								47520								47461											<u> </u>
	0.75"	_	47405	47406	_						47521		47522						47463	-	47465	47466			_						
MALE	1"	47408	_	47410	_	_				_	47523	_		47525					47467	_	47469	47470	47471								—
4	1.25"		47414			47417	47418					47527	47528		47529				47472	_	47474	47475									
_	1.5"	47419		47421	_	47423	47424	47425			47530	47531		47533		47534			47478		47480	47481	47482	47483		47485					-
	2"	47426		47428	_	47430	_	47432			47535			47538			47540		47486	_	47488	47489	47490	_	_	47493					-
	2.5"	47434		47436	_	47438	47439		47441		47541	47542	47543	47544	47545	47546		47547	47494	47495		47497	47498	47499	_	47501					-
	3" DC	47442	47443	47444	47445	47446	47447	47448	47449		47548	47549	47550	47551	47552	47553	47554		47502	47503	47504	47505	47506	47507	47508	47509					
	PG PG11	40017	40000	40011							4777	47777									717/7										
	PG11 PG13.5	49010	49000 49001	49011							47330 47332			_				_			71300		-		 	_					\vdash
	PG13.5			49002				_											71302	71303	71301	71304			\vdash						\vdash
	PG16	49013	49003	49004	49007						47334	47335	47338						71302	71303	71207	/1304	71308								-
	PG21	49014	_	49006 51087	49007	49016								47342	479.43				71305	_	71307	71312	/1308	71313							\vdash
	PG 29				-		49022				47339		-		47343 47348						_	-		/1513	*****						-
	PG 36	49017	49018 49024	49019 49025	49020	49021	49022	49029			47344 47349	47345 47350	47346	47347 47352	47348	47354			71314	71315		71317 71324	71318 71325	71326	/1319	71320					\vdash
	PG42 PG48		49024	49025		49027	49028	49029	40027			47356		47352		47354	47264		71321		71330		71325	_	71330	/132/					\vdash
	IMP	49030	49031	49032	49033	49034	49035	49036	49037		47335	₩735b	47357	47358	47359	47.360	4/361		71328	71329	/1530	71331	71332	/1533	71330						
	0.75"		70104																												
	1"		70104	70105														_				\vdash	_		\vdash						\vdash
	1.5"			70105		70106																									_
	2"				-	70106	70107											_				 	<u> </u>		\vdash	_					\vdash
	2.5"						70107	70108											_												\vdash
	2.5						_	70100																			_				

