



# Mining And Surface Certification (Pty) Ltd

(Pty) Ltd: 2015/021934/07

IN TERMS OF REGULATION 21.17.2 OF THE MINERALS ACT (INCORPORATION THE MINE HEALTH AND SAFETY ACT) AND REGULATION 9 (1) OF THE ELECTRICAL MACHINERY REGULATIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT

<b>IA CERTIFICATE</b>	MASC MS/20-9020X	<b>Issue</b>	0
<b>Issue Date</b>	22 June 2020	<b>Expiry Date</b>	22 June 2030
<b>Applicant</b>	Pratley Manufacturing (Pty) Limited 14 Jackson Street, Fectoria, Krugersdorp, 1745, Gauteng, South Africa		
<b>Manufacturer</b>	Pratley Manufacturing (Pty) Limited 14 Jackson Street, Fectoria, Krugersdorp, 1745, Gauteng, South Africa		
<b>Description (See "Annex A" below)</b>			
<b>Equipment</b>	Flameproof Adaptors and Reducers	<b>Type</b>	Refer to description
<b>MARKING:</b> <i>Must be additionally applied to the equipment</i>	<b>Applicant / Manufacturer</b>	Pratley Manufacturing (Pty) Limited	
	<b>Type</b>	Refer to description	
	<b>Ex Marking</b>	Ex db I Mb, Ex db IIC Gb, Ex eb I Mb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da.	
	<b>IA Number</b>	MASC MS/20-9020X	
	<b>Serial Number</b>	See "Annex A" below	
	<b>Rating</b>	N/A	
<b>WARNING(S)</b>	N/A		
<b>Compliance:</b>			
The equipment as described above and in report <b>ZA/ICS/ExTR20.0016/00</b> has been allocated the rating <u>Explosion Protected as above</u> utilizing the SANS/IEC Standards:			
<ul style="list-style-type: none"> <li>SANS (IEC) 60079-0: 2019 General requirements</li> <li>SANS (IEC) 60079-1: 2015 Flameproof enclosures d</li> <li>SANS (IEC) 60079-7: 2019 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"</li> <li>SANS (IEC) 60079-15: 2010 (2017) Explosive atmospheres – Part 15: Equipment protection by type of protection "n"</li> <li>SANS (IEC) 60079-31: 2014 Equipment dust ignition protection by enclosure "t"</li> <li>ARP 0108:2018 Regulatory requirements for explosion protected apparatus</li> </ul>			
<b>Special conditions of safe use X:</b>			
<ul style="list-style-type: none"> <li>See "Annex A" below</li> </ul>			
<b>Conditions of manufacture:</b>			
<ul style="list-style-type: none"> <li>See "Annex A" below</li> </ul>			
 <b>Terine Orsmond</b> <b>TECHNICAL OFFICER</b>		 <b>Regardt Zeelie</b> <b>TECHNICAL SPECIALIST</b>	
<p style="text-align: center;"><b>This certificate only covers the sample submitted and does not cover production units.</b></p> <p style="text-align: center;">According to the relevant requirements of the MHS Act and the OHS Act, production units of explosion protected equipment are required to comply with third party quality assurance (an approved mark scheme or batch testing by an accredited test laboratory).</p>			



Apparatus in hazardous locations is subject to the following provisions as applicable, which shall be adhered to:

- SANS 10086 requirements;
- Any conditions mentioned in the above certificate;
- Any relevant requirements of the MHS Act and code of practice enforced in terms of regulations 21.17.2 of the minerals act;
- Any restrictions and conditions enforced by the chief inspector of mines, principal inspector (Group I equipment) or chief inspector of factories (Group II equipment).

This certificate may only be reproduced in full.  
This certificate is not transferable and remains the property of the issuing body

Mining And Surface Certification (Pty) Ltd  
Unit 5 Lelyta Park, 45 Jurg Ave. Hennospark Ext 87  
Centurion, 0157



# IA CERTIFICATE: MASC MS/20-9020X

## Equipment: Flameproof Adaptors and Reducers

### ANNEX A

<b>Description</b>	<p>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.</p> <p>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.</p> <p>The rated service temperature of the adaptors and reducers is -35°C to 120°C.</p> <p>The range of flameproof adaptors and reducers are as follows:</p>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr style="background-color: #f08080;"> <th colspan="2" rowspan="2"></th> <th colspan="20">FEMALE THREAD</th> </tr> <tr style="background-color: #f08080;"> <th colspan="5">METRIC</th> <th colspan="5">NPT</th> <th colspan="5">PG</th> <th colspan="5">IMPERIAL</th> </tr> <tr style="background-color: #f08080;"> <th>Metric</th> <th></th> <th>M16</th> <th>M20</th> <th>M25</th> <th>M32</th> <th>M40</th> <th>M50</th> <th>M63</th> <th>M75</th> <th>0.25"</th> <th>0.5"</th> <th>0.75"</th> <th>1"</th> <th>1.25"</th> <th>1.5"</th> <th>2"</th> <th>2.5"</th> <th>3"</th> <th>11</th> <th>13.5</th> <th>16</th> <th>21</th> <th>29</th> <th>36</th> <th>42</th> <th>48</th> <th>0.75"</th> <th>1"</th> <th>1.5"</th> <th>2"</th> <th>2.5"</th> </tr> </thead> <tbody> <tr> <td>M16</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>71200</td> <td>71201</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>M20</td> <td>52028</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>46099</td> <td>47000</td> <td>71245</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>71202</td> <td>71203</td> <td>71294</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>M25</td> <td>53000</td> <td>51069</td> <td>53079</td> <td>52077</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>71246</td> <td>71247</td> <td>71248</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>71205</td> <td>71206</td> <td>71207</td> <td>71208</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>70097</td> <td></td> <td></td> </tr> <tr> <td>M32</td> <td>53001</td> <td>51071</td> <td>51070</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>71249</td> <td>71250</td> <td>71251</td> <td>71252</td> <td></td> <td></td> <td></td> <td></td> <td>71209</td> <td>71210</td> <td>71211</td> <td>71212</td> <td>71213</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>70098</td> <td></td> <td></td> </tr> <tr> <td>M40</td> <td>53002</td> <td>51074</td> <td>51073</td> <td>51072</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>71253</td> <td>71254</td> <td>71255</td> <td>71256</td> <td>71257</td> <td></td> <td></td> <td></td> <td>71214</td> <td>71215</td> <td>71216</td> <td>71217</td> <td>71218</td> <td>71219</td> <td></td> <td></td> <td></td> <td></td> <td>70099</td> <td></td> <td></td> </tr> <tr> <td>M50</td> <td>53003</td> <td>51076</td> <td>51077</td> <td>51076</td> <td>51075</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>71258</td> <td>71259</td> <td>71260</td> <td>71261</td> <td>71262</td> <td>71263</td> <td></td> <td></td> <td>71220</td> <td>71221</td> <td>71222</td> <td>71223</td> <td>71224</td> <td>71225</td> <td>71226</td> <td>71227</td> <td></td> <td></td> <td>70100</td> <td></td> <td></td> </tr> <tr> <td>M63</td> <td>53004</td> <td>53005</td> <td>53006</td> <td>51079</td> <td>51080</td> <td>51081</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>71264</td> <td>71265</td> <td>71266</td> <td>71267</td> <td>71268</td> <td>71269</td> <td>71270</td> <td></td> <td>71228</td> <td>71229</td> <td>71230</td> <td>71231</td> <td>71232</td> <td>71233</td> <td>71234</td> <td>71235</td> <td></td> <td></td> <td></td> <td>70101</td> <td></td> </tr> <tr> <td>M75</td> <td>53007</td> <td>53008</td> <td>53009</td> <td>53010</td> <td>53084</td> <td>53085</td> <td>53086</td> <td></td> <td></td> <td></td> <td></td> <td>71271</td> <td>71272</td> <td>71273</td> <td>71274</td> <td>71275</td> <td>71276</td> <td>71277</td> <td>71278</td> <td>71236</td> <td>71237</td> <td>71238</td> <td>71239</td> <td>71240</td> <td>71241</td> <td>71242</td> <td>71243</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr style="background-color: #f08080;"> <td colspan="2"></td> <td colspan="20"><b>NPT</b></td> </tr> <tr> <td>0.5"</td> <td></td> <td>47200</td> <td>47001</td> <td>47202</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>47100</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>47250</td> <td>47251</td> <td>47252</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>0.75"</td> <td></td> <td>47203</td> <td>47002</td> <td>47003</td> <td>47205</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>47105</td> <td>47101</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>47253</td> <td>47254</td> <td>47255</td> <td>47256</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1"</td> <td></td> <td>47206</td> <td>47004</td> <td>47005</td> <td>47207</td> <td>47208</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>47106</td> <td>47102</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>47257</td> <td>47258</td> <td>47259</td> <td>47260</td> <td>47261</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.25"</td> <td></td> <td>47209</td> <td>47210</td> <td>47006</td> <td>47007</td> <td>47211</td> <td>47212</td> <td></td> <td></td> <td></td> <td></td> <td>47108</td> <td>47105</td> <td>47110</td> <td></td> <td>47103</td> <td></td> <td></td> <td></td> <td>47262</td> <td>47263</td> <td>47264</td> <td>47265</td> <td>47266</td> <td>47267</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.5"</td> <td></td> <td>47213</td> <td>47214</td> <td>47215</td> <td>47216</td> <td>47217</td> <td>47218</td> <td>47219</td> <td></td> <td></td> <td></td> <td>47111</td> <td>47112</td> <td>47113</td> <td>47115</td> <td></td> <td>47104</td> <td></td> <td></td> <td>47268</td> <td>47269</td> <td>47270</td> <td>47271</td> <td>47272</td> <td>47273</td> <td>47274</td> <td>47275</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2"</td> <td></td> <td>47220</td> <td>47221</td> <td>47222</td> <td>47223</td> <td>47224</td> <td>47225</td> <td>47226</td> <td>47227</td> <td></td> <td></td> <td>47116</td> <td>47117</td> <td>47118</td> <td>47119</td> <td>47120</td> <td></td> <td></td> <td>47121</td> <td>47276</td> <td>47277</td> <td>47278</td> <td>47279</td> <td>47280</td> <td>47281</td> <td>47282</td> <td>47283</td> <td>47284</td> <td>47285</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2.5"</td> <td></td> <td>47228</td> <td>47229</td> <td>47230</td> <td>47231</td> <td>47232</td> <td>47233</td> <td>47234</td> <td>47235</td> <td></td> <td></td> <td>47122</td> <td>47123</td> <td>47124</td> <td>47125</td> <td>47126</td> <td>47127</td> <td>47128</td> <td></td> <td>47129</td> <td>47286</td> <td>47287</td> <td>47288</td> <td>47289</td> <td>47290</td> <td>47291</td> <td>47292</td> <td>47293</td> <td>47294</td> <td>47295</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3"</td> <td></td> <td>47236</td> <td>47237</td> <td>47238</td> <td>47239</td> <td>47240</td> <td>47241</td> <td>47242</td> <td>47243</td> <td></td> <td></td> <td>47129</td> <td>47130</td> <td>47131</td> <td>47132</td> <td>47133</td> <td>47134</td> <td>47135</td> <td></td> <td>47296</td> <td>47297</td> <td>47298</td> <td>47299</td> <td>47300</td> <td>47301</td> <td>47302</td> <td>47303</td> <td>47304</td> <td>47305</td> <td>47306</td> <td>47307</td> <td>47308</td> <td>47309</td> </tr> <tr style="background-color: #f08080;"> <td colspan="2"></td> <td colspan="20"><b>NPS</b></td> </tr> <tr> <td>3"</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr style="background-color: #f08080;"> <td colspan="2"></td> <td colspan="20"><b>BSP</b></td> </tr> <tr> <td>0.5"</td> <td></td> <td>47401</td> <td>47402</td> <td>47403</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>47520</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>47460</td> <td>47461</td> <td>47462</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>0.75"</td> <td></td> <td>47404</td> <td>47405</td> <td>47406</td> <td>47407</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>47521</td> <td>47522</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>47463</td> <td>47464</td> <td>47465</td> <td>47466</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1"</td> <td></td> <td>47408</td> <td>47409</td> <td>47410</td> <td>47411</td> <td>47412</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>47523</td> <td>47524</td> <td>47525</td> <td></td> <td></td> <td></td> <td></td> <td>47467</td> <td>47468</td> <td>47469</td> <td>47470</td> <td>47471</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.25"</td> <td></td> <td>47413</td> <td>47414</td> <td>47415</td> <td>47416</td> <td>47417</td> <td>47418</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>47526</td> <td>47527</td> <td>47528</td> <td></td> <td>47529</td> <td></td> <td></td> <td>47472</td> <td>47473</td> <td>47474</td> <td>47475</td> <td>47476</td> <td>47477</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.5"</td> <td></td> <td>47419</td> <td>47420</td> <td>47421</td> <td>47422</td> <td>47423</td> <td>47424</td> <td>47425</td> <td></td> <td></td> <td></td> <td></td> <td>47530</td> <td>47531</td> <td>47532</td> <td>47533</td> <td></td> <td>47534</td> <td></td> <td>47478</td> <td>47479</td> <td>47480</td> <td>47481</td> <td>47482</td> <td>47483</td> <td>47484</td> <td>47485</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2"</td> <td></td> <td>47426</td> <td>47427</td> <td>47428</td> <td>47429</td> <td>47430</td> <td>47431</td> <td>47432</td> <td>47433</td> <td></td> <td></td> <td></td> <td>47535</td> <td>47536</td> <td>47537</td> <td>47538</td> <td>47539</td> <td></td> <td>47540</td> <td></td> <td>47486</td> <td>47487</td> <td>47488</td> <td>47489</td> <td>47490</td> <td>47491</td> <td>47492</td> <td>47493</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2.5"</td> <td></td> <td>47434</td> <td>47435</td> <td>47436</td> <td>47437</td> <td>47438</td> <td>47439</td> <td>47440</td> <td>47441</td> <td></td> <td></td> <td></td> <td>47541</td> <td>47542</td> <td>47543</td> <td>47544</td> <td>47545</td> <td>47546</td> <td>47547</td> <td></td> <td>47494</td> <td>47495</td> <td>47496</td> <td>47497</td> <td>47498</td> <td>47499</td> <td>47500</td> <td>47501</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3"</td> <td></td> <td>47442</td> <td>47443</td> <td>47444</td> <td>47445</td> <td>47446</td> <td>47447</td> <td>47448</td> <td>47449</td> <td></td> <td></td> <td></td> <td>47548</td> <td>47549</td> <td>47550</td> <td>47551</td> <td>47552</td> <td>47553</td> <td>47554</td> <td></td> <td>47502</td> <td>47503</td> <td>47504</td> <td>47505</td> <td>47506</td> <td>47507</td> <td>47508</td> <td>47509</td> <td>47510</td> <td>47511</td> <td>47512</td> <td>47513</td> <td>47514</td> </tr> <tr style="background-color: #f08080;"> <td colspan="2"></td> <td colspan="20"><b>PG</b></td> </tr> <tr> <td>PG11</td> <td>49010</td> <td>49006</td> <td>49011</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>47330</td> <td>47331</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PG13.5</td> <td>49012</td> <td>49001</td> <td>49002</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>47332</td> <td>47333</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PG16</td> <td>49013</td> <td>49003</td> <td>49004</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>47334</td> <td>47335</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PG21</td> <td>49014</td> <td>49005</td> <td>49006</td> <td>49007</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>47336</td> <td>47337</td> <td>47338</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PG29</td> <td>49015</td> <td>51089</td> <td>51087</td> <td>49008</td> <td>49016</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>47339</td> <td>47340</td> <td>47341</td> <td>47342</td> <td>47343</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PG36</td> <td>49017</td> <td>49018</td> <td>49019</td> <td>49020</td> <td>49021</td> <td>49022</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>47344</td> <td>47345</td> <td>47346</td> <td>47347</td> <td>47348</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PG42</td> <td>49023</td> <td>49024</td> <td>49025</td> <td>49026</td> <td>49027</td> <td>49028</td> <td>49029</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>47349</td> <td>47350</td> <td>47351</td> <td>47352</td> <td>47353</td> <td>47354</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PG48</td> <td>49030</td> <td>49031</td> <td>49032</td> <td>49033</td> <td>49034</td> <td>49035</td> <td>49036</td> <td>49037</td> <td></td> <td></td> <td></td> <td></td> <td>47355</td> <td>47356</td> <td>47357</td> <td>47358</td> <td>47359</td> <td>47360</td> <td>47361</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr style="background-color: #f08080;"> <td colspan="2"></td> <td colspan="20"><b>IMP</b></td> </tr> <tr> <td>0.75"</td> <td></td> <td></td> <td>70104</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1"</td> <td></td> <td></td> <td></td> <td>70105</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.5"</td> <td></td> <td></td> <td></td> <td></td> <td>70106</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2"</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>70107</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2.5"</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>70108</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			FEMALE THREAD																				METRIC					NPT					PG					IMPERIAL					Metric		M16	M20	M25	M32	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																				71200	71201												M20	52028									46099	47000	71245								71202	71203	71294											M25	53000	51069	53079	52077								71246	71247	71248						71205	71206	71207	71208							70097			M32	53001	51071	51070									71249	71250	71251	71252					71209	71210	71211	71212	71213						70098			M40	53002	51074	51073	51072								71253	71254	71255	71256	71257				71214	71215	71216	71217	71218	71219					70099			M50	53003	51076	51077	51076	51075							71258	71259	71260	71261	71262	71263			71220	71221	71222	71223	71224	71225	71226	71227			70100			M63	53004	53005	53006	51079	51080	51081						71264	71265	71266	71267	71268	71269	71270		71228	71229	71230	71231	71232	71233	71234	71235				70101		M75	53007	53008	53009	53010	53084	53085	53086					71271	71272	71273	71274	71275	71276	71277	71278	71236	71237	71238	71239	71240	71241	71242	71243								<b>NPT</b>																				0.5"		47200	47001	47202								47100								47250	47251	47252											0.75"		47203	47002	47003	47205							47105	47101							47253	47254	47255	47256										1"		47206	47004	47005	47207	47208						47106	47102							47257	47258	47259	47260	47261									1.25"		47209	47210	47006	47007	47211	47212					47108	47105	47110		47103				47262	47263	47264	47265	47266	47267								1.5"		47213	47214	47215	47216	47217	47218	47219				47111	47112	47113	47115		47104			47268	47269	47270	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	47284	47285				2.5"		47228	47229	47230	47231	47232	47233	47234	47235			47122	47123	47124	47125	47126	47127	47128		47129	47286	47287	47288	47289	47290	47291	47292	47293	47294	47295				3"		47236	47237	47238	47239	47240	47241	47242	47243			47129	47130	47131	47132	47133	47134	47135		47296	47297	47298	47299	47300	47301	47302	47303	47304	47305	47306	47307	47308	47309			<b>NPS</b>																				3"																																				<b>BSP</b>																				0.5"		47401	47402	47403									47520							47460	47461	47462											0.75"		47404	47405	47406	47407								47521	47522						47463	47464	47465	47466											1"		47408	47409	47410	47411	47412							47523	47524	47525					47467	47468	47469	47470	47471										1.25"		47413	47414	47415	47416	47417	47418						47526	47527	47528		47529			47472	47473	47474	47475	47476	47477									1.5"		47419	47420	47421	47422	47423	47424	47425					47530	47531	47532	47533		47534		47478	47479	47480	47481	47482	47483	47484	47485							2"		47426	47427	47428	47429	47430	47431	47432	47433				47535	47536	47537	47538	47539		47540		47486	47487	47488	47489	47490	47491	47492	47493						2.5"		47434	47435	47436	47437	47438	47439	47440	47441				47541	47542	47543	47544	47545	47546	47547		47494	47495	47496	47497	47498	47499	47500	47501						3"		47442	47443	47444	47445	47446	47447	47448	47449				47548	47549	47550	47551	47552	47553	47554		47502	47503	47504	47505	47506	47507	47508	47509	47510	47511	47512	47513	47514			<b>PG</b>																				PG11	49010	49006	49011										47330	47331																				PG13.5	49012	49001	49002										47332	47333																				PG16	49013	49003	49004										47334	47335																				PG21	49014	49005	49006	49007									47336	47337	47338																			PG29	49015	51089	51087	49008	49016								47339	47340	47341	47342	47343																		PG36	49017	49018	49019	49020	49021	49022							47344	47345	47346	47347	47348																		PG42	49023	49024	49025	49026	49027	49028	49029						47349	47350	47351	47352	47353	47354																	PG48	49030	49031	49032	49033	49034	49035	49036	49037					47355	47356	47357	47358	47359	47360	47361																		<b>IMP</b>																				0.75"			70104																															1"				70105																														1.5"					70106																														2"						70107																													2.5"							70108																											
				FEMALE THREAD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
		METRIC					NPT					PG					IMPERIAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Metric		M16	M20	M25	M32	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																				71200	71201																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
M20	52028									46099	47000	71245								71202	71203	71294																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
M25	53000	51069	53079	52077								71246	71247	71248						71205	71206	71207	71208							70097																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
M32	53001	51071	51070									71249	71250	71251	71252					71209	71210	71211	71212	71213						70098																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
M40	53002	51074	51073	51072								71253	71254	71255	71256	71257				71214	71215	71216	71217	71218	71219					70099																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
M50	53003	51076	51077	51076	51075							71258	71259	71260	71261	71262	71263			71220	71221	71222	71223	71224	71225	71226	71227			70100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
M63	53004	53005	53006	51079	51080	51081						71264	71265	71266	71267	71268	71269	71270		71228	71229	71230	71231	71232	71233	71234	71235				70101																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
M75	53007	53008	53009	53010	53084	53085	53086					71271	71272	71273	71274	71275	71276	71277	71278	71236	71237	71238	71239	71240	71241	71242	71243																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		<b>NPT</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
0.5"		47200	47001	47202								47100								47250	47251	47252																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
0.75"		47203	47002	47003	47205							47105	47101							47253	47254	47255	47256																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
1"		47206	47004	47005	47207	47208						47106	47102							47257	47258	47259	47260	47261																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
1.25"		47209	47210	47006	47007	47211	47212					47108	47105	47110		47103				47262	47263	47264	47265	47266	47267																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
1.5"		47213	47214	47215	47216	47217	47218	47219				47111	47112	47113	47115		47104			47268	47269	47270	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	47284	47285																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
2.5"		47228	47229	47230	47231	47232	47233	47234	47235			47122	47123	47124	47125	47126	47127	47128		47129	47286	47287	47288	47289	47290	47291	47292	47293	47294	47295																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
3"		47236	47237	47238	47239	47240	47241	47242	47243			47129	47130	47131	47132	47133	47134	47135		47296	47297	47298	47299	47300	47301	47302	47303	47304	47305	47306	47307	47308	47309																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		<b>NPS</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
3"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
		<b>BSP</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
0.5"		47401	47402	47403									47520							47460	47461	47462																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
0.75"		47404	47405	47406	47407								47521	47522						47463	47464	47465	47466																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
1"		47408	47409	47410	47411	47412							47523	47524	47525					47467	47468	47469	47470	47471																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
1.25"		47413	47414	47415	47416	47417	47418						47526	47527	47528		47529			47472	47473	47474	47475	47476	47477																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
1.5"		47419	47420	47421	47422	47423	47424	47425					47530	47531	47532	47533		47534		47478	47479	47480	47481	47482	47483	47484	47485																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
2"		47426	47427	47428	47429	47430	47431	47432	47433				47535	47536	47537	47538	47539		47540		47486	47487	47488	47489	47490	47491	47492	47493																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
2.5"		47434	47435	47436	47437	47438	47439	47440	47441				47541	47542	47543	47544	47545	47546	47547		47494	47495	47496	47497	47498	47499	47500	47501																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
3"		47442	47443	47444	47445	47446	47447	47448	47449				47548	47549	47550	47551	47552	47553	47554		47502	47503	47504	47505	47506	47507	47508	47509	47510	47511	47512	47513	47514																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		<b>PG</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
PG11	49010	49006	49011										47330	47331																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
PG13.5	49012	49001	49002										47332	47333																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
PG16	49013	49003	49004										47334	47335																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
PG21	49014	49005	49006	49007									47336	47337	47338																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
PG29	49015	51089	51087	49008	49016								47339	47340	47341	47342	47343																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
PG36	49017	49018	49019	49020	49021	49022							47344	47345	47346	47347	47348																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
PG42	49023	49024	49025	49026	49027	49028	49029						47349	47350	47351	47352	47353	47354																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
PG48	49030	49031	49032	49033	49034	49035	49036	49037					47355	47356	47357	47358	47359	47360	47361																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		<b>IMP</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
0.75"			70104																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
1"				70105																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
1.5"					70106																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
2"						70107																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
2.5"							70108																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th colspan="2"></th> <th colspan="2">Legend</th> </tr> </thead> <tbody> <tr> <td>Type A</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Type B</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Legend		Type A				Type B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
		Legend																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Type A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Type B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
<b>Standard compliance</b>	See "certificate" above																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
<b>Warnings</b>	See "certificate" above																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
<b>Conditions of Certification</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
<b>Special Conditions of safe use (X)</b>	<ul style="list-style-type: none"> <li>The adaptors and reducers shall only be used at a service temperature between -35°C and 120°C.</li> <li>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.</li> <li>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.</li> </ul>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
<b>Conditions of manufacture</b>	<ul style="list-style-type: none"> <li>None</li> </ul>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

This document is issued based on Mining And Surface Certification's Standard Contract terms and conditions available on request.

While every endeavour is made to ensure that a test / assessment / inspection is representative and accurately performed, and that a report / certificate is accurate in the quoted results and conclusions drawn from the test / assessment / inspection, MASC or its directors/employees shall in no way be liable for any error made in carrying out the test / assessment or for any erroneous statement, whether in fact or in opinion, contained in a report / certificate issued pursuant to a test / assessment / inspection.

MASC takes no responsibility for any non-conformances, exclusions or any results / assessments / inspections not in compliance with the standards. By marking the equipment in accordance with the documentation / standard, the manufacturer / applicant attests on his own responsibility that the equipment / installation has been designed and constructed in accordance with the applicable requirements of the relevant standards and documentation, that the routine verifications / routine tests have been correctly completed and the equipment / installation complies with the documentation and standard(s).

This document is only for use and application in South Africa. It is issued based on National interpretations and accepted practices