

A	B	C	D	E	F	G	H	I	J	K	
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	The City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater	
<p>Notes:                      WSAA Product Specification WSAA Product Specifications are available from www.wsaa.asn.au. Section 4 of the WSAA Product Specifications is for "Agency or Project Specific Requirements". The SEQ requirements are specified below.                      Manufacturer/Supplier Products may be sourced from alternative Suppliers than those listed provided that the products are manufactured by a Manufacturer whose name, and the products' trade name, appear on the list.                      Size Range Size ranges need to be read in conjunction with the relevant clauses of the SEQ versions of the WSAA Codes (e.g. Water Supply Code Clause 3.1.1; Sewerage Code Clause 10.6; Pressure Sewerage Code Clause 4.5.3.1; etc.)                      Blank Cells in the five columns under the service provider's names cells that are blank indicate that the product listed on that row are acceptable to the service provider.                      *Use is subject to acceptance by SP* Contact the service provider to determine if the use of this product is acceptable in the proposed circumstance.                      *Flange* All flanges used for pressure systems shall be PN16 or PN35 complying with AS4087.</p>											
<b>Category: SEWERAGE PIPES AND FITTINGS - NON PRESSURE</b>											
4	PVC-U pipe and fittings - DWV system	230	Iplex	DWV PIPE	Plain wall only accepted	DN100 at SN10 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum	DN100 at SN6 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum	DN100 at SN6 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum	Use is subject to acceptance by SP	DN100 at SN10, DN150 and larger at SN8 and Fittings at SN8 minimum	
5		4.1 - Plain Wall	Vinidex	DWV SEWER							
6		4.2 - Elastomeric Seal	Viadux	D-FLO							
7		4.3 - Stiffness as per 230.2.(c) or as required by SP	Micron Pipelines	Micron Pipelines							
8	4.4 - RRJ @ SBR & EPDM	Pipemakers	Pipemakers	DN100 - DN300							
9	PVC-U Pressure pipe Sewer using Standard DWV Junctions	211	Iplex		DN150 225 300	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Mandatory for sewers deeper than 3 metres and for sewers with minimum cover All details to be confirmed with SP	
10		4.1 - PN12	Vinidex								
11		4.2 - Deep Sewers or Minimum Cover	Viadux								
12	DI pipe	202S	VonRoll / Reece	Ducpur/ Ecopur	DN80 - 700	Polyurethane internal protection	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
13		4.1 - PN20	Beaver-Jindal Australia/NZ		DN225 to DN750		NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	PN20 NOT ACCEPTED BY SP, PN35 Use is subject to acceptance by SP
14		4.2 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp									
15		4.3 - Polyurethane lining									
16	4.4 - Restrainted Joints on Zinc/Bitumen coated pipe										
17	Steel pipe	200 and WSAA TN6	Viadux	Tytonxtreme	DN100 - 750		NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Accepted in applications where DI pipe is specified e.g. building over sewer applications	
18		4.1 - PN35	Crevet / Iplex	Ironite	DN100 - 750	CAC cement lining	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
19		4.2 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp									
20	4.3 - CAC cement lining	Saint-Gobain	Integral Zinaium	DN100 - 750		pH1 version accepted				Use is subject to acceptance by SP	
21	Polypropylene (PP) pipe	240	Vinidex	SewerPRO	DN150 - 900				NOT ACCEPTED BY SP		
22		4.1 - Type B - ID Series	Iplex	SewerMAX	DN225 - 600						
23		4.2 - SN10,000	Enviropipes	EnviroPipe	DN150 - 900				Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
24	PE pipe - NuSewers	207	Iplex	POLIplex	DN110 160 250 315 400 500 630 800 1000 1200	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	PE is mandatory pipe for reticulation sewers, PE is preferred pipe for larger sewers. Where > PN8 is required, dark internal pipe colour may be used with prior SP approval	
25		4.1 - Minimum PN8 SDR21 PE100	Vinidex	Sewertech							
26		4.2 - Gravity Sewer fully welded	DMG	Hi-Vis							
27		4.3 - Pipes lengths for DN160 and larger with coils accepted for DN110	Viadux								
28		4.4 - External colour light grey Solid or Striped with Internal colour white or light colour, see POP203	Poly Pipe	SewerFlex							
29		4.5 - PE100 only	Enviropipes	Enviropressure							
30	PE fittings - Moulded	208	George Fischer / Iplex		Up to DN315	Electrofusion fitting to be long type.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	
31		4.1 - PN10 preferred	Friatec / Vinidex								
32		4.2 - Electrofusion or butt welding	Plasson	Lightfit							
33		4.3 - Couplings and Saddles	Agro	AGRU							
34		4.4 - Bolting Flanges not required.	Fusion Group/FusionPlast	Fusamatic							
35		4.5 - Elastomeric Seals not permitted And Electrofusion fitting Standards AS4129, EN1555, EN12201, EN13244-4	NUPIGECO	Elofit							
36	PE fittings - Fabricated	216 and AS/NZS4129	Vinidex		Up to DN630	Electrofusion fitting to be long type. PE MH connectors shall have Hydrophilic seals both sides of puddle flange.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	
37		4.1 - PN10 preferred	Iplex								
38		4.2 - Electrofusion or butt welding Including Sweep Bends, MH Connectors, Sediment Traps, Tee and Bends for drop pipes and Sweep Junctions.	Adroit	Adroit							
39	VC pipe	231	Hepworth	Supersleeve	DN100-1200	Use is subject to acceptance by SP May only be used as jacking pipes			Use is subject to acceptance by SP May only be used as jacking pipes	May only be used as jacking pipes	
40		4.1 - DN100/150 Crushing Strength 34, DN225 and larger Class 160	Steinzeug Keramo	Keramo							
41		4.2 - Sp-Soc and Sleeve Coupling	Naylor / Rocla	Denlok							
42	DI IO bends or X Drop fitting	201	Crevet		All DI fittings to be wrapped				Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
43		4.1 - Sp-Soc ends to serve PVC-U DWV pipe	Viadux								

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44	Metal-banded flexible coupling 235 4.1 - Need for adaptor bushes where difference between OD of pipe and ID of coupling greater than 16 mm 4.2 - Metal band and bolts shall be min SS316	Flex-Seal	Flex-Seal	Up to DN600	Not to be used for PE pipes						
45		DEKS	DEKS shear banded coupling	DN100 to DN225							
46		Rehau	Flex Connect	DN110 to DN 630							
47	DI mechanical couplings - Non End Thrust Restraint 270 4.1 - PN16 4.2 - All pipe materials except PE 4.3 - Long Series 4.4 - Straight Soc-Soc 4.5 - Stepped coupling require SP approval 4.6 - Flange end not used 4.7 - SBR & EPDM And SS316 bolts, nuts and washers	Viadux	Gibault - Ezigib & Varigib	Up to DN675	Long type All DI fittings to be wrapped DI must have thermal bonded polymeric coating						
48		Crevet	Gibault & Universal								
49		AVK	Gibault & Universal								
50		AVK	AVK Supa-Gib Couplings								
51		Viking Johnson	MaxiFit & QuickFit								
52		Derwent									
53		DEKS	DEKS FLEXI-GIB								
54	Daemco	Reinoversal	DN80 to DN600								
55		Clover Pipelines	Clover Connect VPC	Up to DN 600 DN100 - DN150							
56	Reinforced Concrete pipe 233 4.1 - Class 4 4.2 - Bends not permitted 4.3 - In corrosive soils coat external face with 250 micron DFT High Build Epoxy 4.4 - Lifting holes not permitted 4.5 - 2.0 mm PE sheet Factory cast-in liner with Invert overlapped but not welded 4.6 - No additional cover 4.7 - SBR & EPDM	Rocla				Use is subject to acceptance by SP			Use is subject to acceptance by SP	Use is subject to acceptance by SP	
57		Humes									
58	Polycrrete pipe No WSA-PS 4.1 - Class to suit design 4.2 - Bends not permitted 4.3 - Compliance with ASTM D 6783, DIN 54815-1 and DIN 54815-2 4.4 - SBR and EPDM Sewer Pipe and Jacking Pipe approved	Iplex	Meyer pipe	DN200 to 2600		Use is subject to acceptance by SP			Use is subject to acceptance by SP	Use is subject to acceptance by SP Coupling Grade 316 Stainless Steel (min.)	
59		Global Pipe	Al Watani								
60	CC-GRP (centrifugally cast) pipe and Fittings - Sewer Pipe 237S 4.1 - PN1 4.2 - SN10,000 minimum 4.3 - Soc-Sp RRJ 4.4 - Standard Glass 4.5 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN400 - DN1400	Sewer Pipe	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
61	FW-GRP (filament wound) pipe and Fittings - Sewer Pipe 205S 4.1 - As per product 4.2 - PN1 4.3 - SN10,000 minimum 4.4 - Bends, T-piece, Y-piece, Saddles, Reducers, Flanges and MH Couplings 4.5 - Soc-Sp RRJ 4.6 - Standard Glass 4.7 - SBR & EPDM	Flowtite / Iplex	Flowtite	DN300 - DN3000	Sewer Pipe	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
62		Global Pipe	Fiberstrong	DN300 - DN4000							
63		Superlit / Clover Pipelines	Superlit	DN300 - DN3000							
64	CC-GRP (centrifugally cast) pipe and Fittings - Jacking Pipe 205J 4.1 - As per product 4.2 - Pressure Class by design 4.3 - Stiffness Class by design 4.4 - Jacking Load by design 4.5 - 316 Stainless Steel (min) or GRP couplings 4.6 - SBR & EPDM 4.7 - Pipe Lengths to manufacturers requirements 4.8 - Standard Glass	Hobas / Global Pipe	Hobas	DN250 - DN3600	Jacking pipes	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
65		Empire Infrastructure	BOSSPIPE	DN300 - DN2000							
66		Superlit / Clover Pipelines	Superlit	DN400 - DN1400							
67	FW-GRP (filament wound) pipe and Fittings - Jacking Pipe 206J 4.1 - As per product 4.2 - Pressure Class by design 4.3 - Stiffness Class by design 4.4 - Jacking Load by design 4.5 - 316 Stainless Steel (min) or GRP couplings 4.6 - SBR & EPDM 4.7 - Pipe Lengths to manufacturers requirements 4.8 - Standard Glass	Flowtite / Iplex	Flowtite	DN300 - DN3000	Jacking pipes	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
68	Non-return valves No WSA-PS	Iplex	Flap valve	DN50 to DN300	All DI fittings to be wrapped	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
69			Reflux valve fabricated	DN100							
70			Vindex	Flap valve							DN50 to DN100
71			Hygrade Water	WaStop Non-return valves							DN75 to DN200
72			Fluid Control	Red valve - Tideflex check valves							DN50 to DN2400
73		HMA Flow & Industrial - Valveco	Proflex Rubber Check Valve	DN 25 to DN 2500							
74	Knife gate valve - Stainless Steel 266 4.1 - PN10 4.2 - Wafer or Lugged 4.3 - Clockwise closing, rising spindle	Pentair	Keystone	Up to DN600	Body stainless steel Grade 316. Gate stainless steel Grade 316. Gland Follower stainless steel Grade 304 or 316. Spindle stainless steel grade 304 or 316. Yoke/Pillar/Bridge stainless steel Grade 304 or 316. Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel Grade 316.	Use is subject to acceptance by SP		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Subject to meeting the corrosion resistance requirements in Column F	
75		Challenger	Challenger								
76		AVFI	AVFI								
77		HMA Valveco	HMA Valveco								
78		AVK (Note: This is the only vendor complying with 316 SS throughout)	AVK								
79	Knife gate valve - Fabricated Stainless Steel 266 4.1 - PN1 4.2 - Lugged 4.3 - Clockwise closing, rising spindle (Note: This is a low pressure type gate valve, suitable only for sewer isolation etc.)	Australian Water Engineers	Australian Water Engineers	DN700 to DN1200	Body, Gate, Gland Follower, Spindle and Yoke / Pillar / Bridge stainless steel Grade 316. Seat EPDM. All fasteners stainless steel Grade 316.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
80	Knife gate valve - Ductile iron body 266 4.1 - PN10 4.2 - Wafer or Lugged 4.3 - Clockwise closing, rising spindle	Pentair	Keystone	Up to DN600	Body and Gland Follower ductile iron with fusion bonded polymeric coating external to 300 µm, internal to 350 µm (min.) or high-build two-pack epoxy to 275 µm (min.). Gate stainless steel Grade 316. Spindle stainless steel Grade 316. Yoke / Pillar / Bridge carbon steel with fusion bonded polymeric coating to 300 µm or high-build two-pack epoxy to 275 µm (min.). Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel Grade 316. All DI fittings to be wrapped	Use is subject to acceptance by SP		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
81		Challenger	Challenger								
82		AVFI	AVFI								
83		AVK	AVK								

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<b>Category: SEWERAGE PIPES AND FITTINGS - PRESSURE</b>										
84										
85	209 4.1 - PN16 4.2 - Sewer Rising main 4.3 - Series 2 only 4.4 - Cream refer POP203 4.5 - SBR & EPDM	Iplex	BLUERHINO	DN100 150 200 225 250 300 & 375			Use is subject to acceptance by SP		Use is subject to acceptance by SP	<b>NOT ACCEPTED BY SP</b>
86		Vinidex	Hydro							
87		Viadux	TUF-FLO							
88		Micron Pipelines	Micron Pipelines							
89		Pipemakers	Pipemakers Enviromain							
90	210 4.1 - PN16 4.2 - MRS400 or MRS450 4.3 - Sewer Rising main 4.4 - Series 2 only, Cream refer POP203 4.5 - SBR & EPDM	Iplex	ApolloBLUE	DN100 150 200 225 250 300 & 375				Use is subject to acceptance by SP	<b>NOT ACCEPTED BY SP</b>	Use is subject to acceptance by SP
91		Vinidex	Supermain							
92		Micron Pipelines	Micron Pipelines							
93		Pipemakers	Alphamain							
94			TOM®	up to DN375						
95	200 and WSAA Tn6 4.1 - All Pressure Classes - see Column F 4.2 - Seal Coat not required for Sewerage 4.3 - Cement Mortar Linings - see Columns F-K 4.4 - All fittings to be Fusion Bonded Polymeric Coated 4.5 - Restraint Joint Seals by approval 4.6 - SBR and EPDM 4.7 - PE sleeving is required on ALL DI pipes, including those with a zinc-aluminium alloy coating, unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	Beaver-Jindal Australia/NZ		DN225 to DN750	PN20	<b>NOT ACCEPTED BY SP</b>			<b>NOT ACCEPTED BY SP</b>	<b>PN20 NOT ACCEPTED BY SP</b>
96		Vinidex	ZAP-GP	DN250-750 (not 225)						
97		Clover Pipelines	Clover/Xinxing							
98		Vinidex	ZAP-HAC		PN20, CAC lining for corrosive flows	Cement Mortar lining of any type is not permitted within 5.0 metres of the HGL at pump stop. Alternative non-corrosive lining or pipe and fittings required.  Coating shall be minimum 400g/m2 Zn-Al alloy+µm synthetic resin or minimum 900µm polyurethane or approved equivalent Use of Clover Pipelines is subject to acceptance by SP Use of Beaver-Jindal Australia/NZ is subject to acceptance by SP	Cement Mortar lining of any type is not permitted within 5.0 metres of the HGL at pump stop. Alternative non-corrosive lining or pipe and fittings required.  Use of Vinidex and ZAP products is subject to acceptance by SP	Cement Mortar lining of any type is not permitted within 5.0 metres of the HGL at pump stop. Alternative non-corrosive lining or pipe and fittings required.  Use of Clover Pipelines, Vinidex, ZAP and Beaver Jindal Australia/NZ products is subject to acceptance by SP	Use is subject to acceptance by SP	At such locations, non-corrosive pipes or metal pipes with non-corrosive linings shall be used. All linings of pipes and fittings at such locations shall be non-corrosive. Use of Clover Pipelines is subject to acceptance by SP
99		Beaver-Jindal Australia/NZ		DN225 to DN750						
100		Crevet / Iplex	Ironite (XINAL400+ coating)		PN35 and Flange class					
101		Vinidex	ZAP-GP							
102		Clover Pipelines	Clover/Xinxing	DN100, 150, 200, 250, 300, 375, 450, 500, 600 & 750 (not 225)	PN35 and Flange Class, CAC lining for corrosive flows					
103		Crevet / Iplex	Ironite (XINAL400+ coating)							
104		Vinidex	ZAP-HAC							
105	Saint-Gobain	PAM/TYTON Integral Zinalium	DN100 – DN750 (not 225)							
106	Viadux	PAM/TYTON Integral Zinalium								
107	DI Pipe - ISO	VonRoll / Reece	Ducpur/ Ecopur	DN80 - 700	Polyurethane internal protection					
108	DI fittings - bends, tapers, tees/branches, connectors, risers & caps/blank ends	Viadux	Tyton Joint	Up to DN750 (not 225)	Thermal bonded polymeric coating is the standard material in WSA PS 201 and WSA PS212 All DI fittings to be wrapped					Restraint joint seals not suitable for: PN20 pipe; Aboveground applications; Combining joint restraint and thrust blocks; Epoxy or fusion coated spigots (incl Tytonextreme pipe); Other manufacturers sockets or other pipe materials. Use of Restrainted Joint Rubber Rings (Tyton-lok) subject to acceptance by SP.
109		Crevet / Iplex	Crevet	Up to DN750 (not 225)						
110		Vinidex	Superlink	Up to DN750 (not 225)						
111		Derwent		Up to DN750 (not 225)						
112		Gillies		DN100 & DN150						
113		Himgiri Castings/Galvin Engineering / CivilPipes	Galvin	DN80 to DN300						
114		Dobbie Dico	Dobbie	DN100 to DN250						
115	Mallet	Mallet	DN80 to DN750							
116	Clover Pipelines	Clover	DN80 to DN150				Use is subject to acceptance by SP	Use is subject to acceptance by SP	Caps / Blank Ends not accepted	Caps / Blank Ends not accepted
117	Bolts	No WSA-PS Refer Standard Drawing SEQ-WAT-1313-1 etc.			316 Stainless steel bolts	Refer Standard Drawing	Refer Standard Drawing	Refer Standard Drawing	SS316	Grade 316 Stainless Steel (min.)
118	316 SS repair and flanged off-take clamps	Crevet		DN100 to DN300	Flanged off-take clamps approved Type R for DI, AC and CI host pipes and Type F for PVC-m, PVC-u only, to pipe manufacturers specifications. Host pipe to be of suitable condition. Daemco repair clamps only accepted.		Use is subject to acceptance by SP			Type R accepted only
119		Viadux	Wang	DN100 to DN300						
120		Cascade Control	Rapid Clamps	DN40 to DN350						
121		Daemco	Norma Connect	DN80 to DN300						
122		AVK	AVK Series 748	Up to DN300			Only repair clamps accepted. For Non-PE pipes only			
123	Repair Couplings	270 4.1 - PN16 4.2 - All pipe materials 4.3 - Short and Long Series 4.4 - Straight and Stepped 4.5 - All DN Range options 4.6 - Flange end not used 4.7 - EPDM, NBR, Neoprene And SS316 bolts, nuts and washers	Nova Siria/Hygrade Water	Duofit	DN 300 - DN2000		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
124	Flange (DI) off-take clamps	327 4.1 - Pipe DN63 and larger ( see WSA PS 207 above ) - Off-take ID 20 mm minimum 4.2 - PN16 4.3 - Female Rp thread to AS ISO 7.1 4.4 - Without electrical Isolation	Hawle / Hygrade Water	Haku	DN125 to DN355	For use on PE pipe only, installed and commissioned in accordance with manufacturers recommendations All DI fittings to be wrapped	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	

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125	Metal-banded flexible couplings - Vacuum Valve coupling use only	235 4.1 - Need for adaptor bushes where difference between OD of pipe and ID of coupling greater than 16 mm 4.2 - Metal band and bolts shall be min SS316	Flex-Seal DEKS	Flex-Seal DEKS shear banded coupling	Up to DN600 DN100 to DN225			Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP
126			Viadux	Gibault - Ezigib & Varigib						
127			Crevet	Gibault & Universal						
128			AVK	Gibault & Universal						
129			AVK	AVK Supa-Gib Couplings	Up to DN675			Use is subject to acceptance by SP	Use is subject to acceptance by SP	
130			Viking Johnson	MaxiFit, QuickFit						
131	DI mechanical couplings - Non End Thrust Restraint	270 4.1 - PN16 4.2 - All pipe materials except PE 4.3 - Long Series 4.4 - Straight Soc-Soc 4.5 - Stepped coupling require SP approval 4.6 - Flange end not used 4.7 - SBR & EPDM And SS316 bolts, nuts and washers	Derwent DEKS	MaxiFit, QuickFit DEKS FLEXI-GIB	Up to DN675 DN80 to DN600	Long type All DI fittings to be wrapped DI must have thermal bonded polymeric coating			Use is subject to acceptance by SP	
132			Daemco	Reiniversal	Up to DN 600					
133			Clover Pipelines	Clover Connect VPC	DN100 - DN150			Use is subject to acceptance by SP		
134										
135										
136	DI mechanical fittings - End Thrust Restraint (Gripper Type)	271 for DI, 245 for PE 4.1 - PN16 4.2 - DI and PE 4.3 - Short and Long Series 4.4 - Straight and Stepped and Flange Adaptor 4.5 - All DN Range options 4.6 - Flange Figure as specified with SS316 bolts, nuts and washers 4.7 - SBR & EPDM & Nitrile And SS316 bolts, nuts and washers	Hawle / Hygrade Water AVK +GF+ Viking Johnson Nova Siria/Hygrade Water Daemco	System 2000 for PE Synoflex PN16 Restraint for AC, DICL, SCL, PE Supa Plus Restraint for PE Multijoint 3000 Plus restraint type for AC, DI, SCL, PE Aqaufast and Aqaugrip Restraint for PE Multigrip Xcel Restrained Coupling and Flange Adaptor for PE	DN50-DN300 DN350-DN1400 DN 63 to DN 315 for Coupling & DN63 to DN 200 for Flange Adaptor	All DI fittings to be wrapped Synoflex and +GF+ 3000 Plus are manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DN's may not suit the same pipe DN's for some pipe materials and sizes (e.g. DN200 CIOD pipes). In this case a larger gripper socket DN may need to be used. Contractors need to check the suitable gripper socket DN's for their pipes. Synoflex and +GF+ 3000 Plus are not to be used on PVC and GRP pipes	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Only accepted for use where welded joints are not practical Use of Hawle System 2000 and AVK SupaPlus restrained couplings are subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations The use of gripper type fittings on AC, DI and SCL pipe is subject to acceptance by SP Use is subject to acceptance by SP Use of Daemco Xcel Restrained Couplings is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations
137										
138										
139										
140										
141	DI flanged telescopic flexible fitting	No WSA-PS Aligned to WSA_PS 201 and 270 with Flanges to AS 4087 Figure B5 To comply with WSA PS-201S when published	Hawle / Hygrade Water WSA PA 12/09	Vario	DN50 - DN200	All DI fittings to be wrapped			Use by SP only	
142										
143	Dismantling joints for Flange Pipe and Fittings	201 4.1 - FI-FI for DJ & FI/Sp for UniFlange 4.2 - Thrust type and non-thrust type minimum PN16 4.3 - Thrust Restraint by Fitting 4.4 - SBR & EPDM	Viadux Viking Johnson Valveco Hygrade Water AVFI		DN50-DN500 DN80-DN900 DN80-DN1200	Thrust restraint type and non-thrust type are Flanged to AS4087 PN16. SS316 bolts, nuts and washers. Larger sizes of UniFlange shall be assessed for available Fitting PN vs Pipeline Test Head. All DI fittings to be wrapped	Restrained type only NOT ACCEPTED BY SP Use is limited - refer to SP for advice NOT ACCEPTED BY SP Restrained type only	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Uni-flange to be used within pit or aboveground locations only
144										
145										
146										
147										
148	PE pipe	207 4.1 - PN16 4.2 - Sewer Rising main 4.3 - Coil pipe permitted up to DN125 with Pipe lengths for larger DN 4.4 - Cream refer POP203 4.5 - PE100 only	Iplex Vinidex DMG Viadux Poly Pipe Cromford Enviropipes ACP ASA Agru		DN40 50 63 90 125 180 250 315 355 450 560 630 800	For directional drilling installations, minimum SDR 9 (PN20 PE100) unless specified otherwise and install with tracer wire. Pipe wall thickness to be designed for installation forces.	Use is subject to acceptance by SP		Use is subject to acceptance by SP	PE is preferred pipe material - PE shall be used unless specific site conditions dictate otherwise. Pressure Sewer/ Rising main pipes shall be black with cream stripes Vacuum Sewer pipes shall be solid cream (co-extruded with the pipe)
149										
150										
151										
152										
153										
154										
155										
156										
157										
158	PE pipe - High Stress Crack Resistant (HSCR) Polyethylene Pipe	207, POP016 4.1 - PN16 minimum 4.2 - Sewer Rising main 4.3 - Coil pipe permitted up to DN125 with Pipe lengths for larger DN 4.4 - Cream refer POP203 4.5 - HSCR PE100 only	Iplex	Millennium HSCR PE	DN40 50 63 90 125 180 250 315 355 450 560 630 800	For directional drilling and pipe bursting installations, minimum SDR 9 (PN20 HSCR PE100) unless specified otherwise and install with tracer wires. Pipe wall thickness to be specified as normal PE100 as such "extra" strength should be provided.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Pressure Sewer /Rising main pipes shall be black with cream stripes Vacuum Sewer pipes shall be solid cream (co-extruded with the pipe)
159	PE fittings - Moulded - High Stress Crack Resistant (HSCR) Polyethylene	208 2(a) - AS/NZS4129 or EN1555 or EN12201 or EN13244 is acceptable. HSCR compounds shall comply with AS/NZS 4131 and POP016. 4.1 - PN16 4.2 - Electrofusion and butt weld 4.3 - Couplings, Reducers, End Caps, Bends, Tees, Stub Flanges 4.4 - Flanges & SS backing rings to AS/NZS 4087 Fig B5 or B7 4.5 - SBR & EPDM	Agru	Agruline	Up to DN630	Electrofusion fitting to be long type. Stub flange may only be used for DN450 and larger sizes	Sizes of DN630 and above which are machined fittings are subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Accepted up to DN355
160			George Fischer							
161			Friatec / Vinidex	Frialen	DN63XDN32 to DN350XDN90					
162			Plasson							
163	PE fittings - Moulded	208 2(a) - AS/NZS4129 or EN1555 or EN12201 or EN13244 is acceptable. 4.1 - PN16 4.2 - Electrofusion and butt weld 4.3 - Couplings, Reducers, End Caps, Bends, Tees, Stub Flanges 4.4 - Flanges & SS backing rings to AS/NZS 4087 Fig B5 or B7 4.5 - SBR & EPDM	Agru	AGRU	Up to DN630	Electrofusion fitting to be long type. Stub flange may only be used for DN450 and larger sizes.	Accepted where PE systems are approved to use	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Flanged tees and flanged saddles are not accepted by SP Flanged tees and flanged saddles are not accepted by SP
164			Fusion Group / FusionPlast	Fusamatic	Up to DN630					
165			NUPIGECO	Elofit	DN20 to DN710					
166			Hydroflow / Plastitalia S.p.A	PLAST	Up to DN630					
167			Simona / Plasson	Simona	Up to DN500					
168			Mako	Mako	Up to DN630					
169	PE fittings- Fabricated	216 and AS/NZS4129 4.1 - PN16 minimum 4.2 - Electrofusion or butt welding Including reducers, flanges, end caps, reducing tees and sweep bends	Adroit	Adroit		Butt Welded Fittings	Accepted where PE systems are approved to use	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP Seamless sweep bends not accepted Only butt welded spigot fittings accepted

A	B	C	D	E	F	G	H	I	J	K	
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	The City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater	
170	208 4.1 - PN16 4.2 - Electrofusion and butt weld 4.3 - Full Face Flange with SS backing ring 4.4 - Flange standard AS/NZS 4087 B5 or B7 4.5 - SBR & EPDM	Simona / Plasson	Simona			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Not accepted by SP	Use is subject to acceptance by SP	
171		Plasson		DN80/DN100	Slotted flanges & backing rings suit both DN80 and DN100 to WSAA 98/50					Use of stub flanges is subject to acceptance by SP	
172		Iplex		Up to DN355	Full bore connections						
173		Friatec / Vinidex	Frialen	Up to DN180	Metal insert in the flange, backing rings not required					Use is subject to acceptance by SP	Use is subject to acceptance by SP
174		216 and AS/NZS4129 4.1 - PN16 4.2 - Electrofusion and butt weld	Rodney / Vinidex	Maxi Stub	Up to DN355				Full bore connection	Use is subject to acceptance by SP	Use is subject to acceptance by SP
175	203 4.1 - MPa 1.6 minimum 4.2 - DN by Design subject to SP approval 4.3 - Seal Coat not required 4.4 - Sintakote minimum for above ground 4.5 - Joint requirements by Design 4.6 - Cathodic Protection by design 4.7 - Standard pressure tests 4.8 - Sintapipe lining 4.9 - SBR & EPDM 4.10 - Sintakote minimum	Steel Mains	Sintapipe	DN324 - 813	RRJ unless otherwise approved	Use is subject to acceptance by SP DN610 minimum size	Use is subject to acceptance by SP DN610 minimum size	Use is subject to acceptance by SP DN610 minimum size	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
176	Stainless Steel Pipe	No WSA-PS WSAA Materials Fact Sheet No:2 Selection of Stainless Steels WSAA Materials Fact Sheet No:3 Fabricating Stainless Steels	ASSDA accredited fabricators	N/A	DN100 - DN750	Min. Grade 316 Min. PN16 Flange to AS4087 Fig B5	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
177	260 4.1 - PN16 4.2 - All End configurations accepted 4.3 - Integral By-pass on DN450 and larger (Unitywater accepts either integral or constructed by-pass as per job specification) 4.4 - Gear Box on DN600 and larger (Refer Mechanical List) 4.5 - Anti-Clockwise closing 4.6 - No requirement for spindle cap colour 4.7 - Extension Spindle to WSA PS - 262 4.8 - Spindle Cap 4.9 - SBR & EPDM	AVK	Series 57 (light type only for DN100 & 150) Series 570 Series 36/60 Series 01/71 Series 55	Up to DN400 Up to DN400 Up to DN300 Up to DN300 DN450 to 600		For PE pipes PE gripper Sluice Valves by Hawle E2 System 2000 or AVK Supa Plus Coupling Series 01/70 or equal Sluice Valves with PE stubs for electrofusion acceptable. Some valves may not need by-pass (check with SEQ SPs). All DI fittings to be wrapped	DN600 and larger valves shall be DeZurik Eccentric Plug Valves			Use of AVK SupaPlus restrained couplings is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations	
178		Hawle	E2							Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.	
179		Viadux	Series 500 Auslite II Auslite III	DN200 - DN300 Up to DN 400							
180		Karon / Challenger	Karon	DN80 - DN600							
181		AVFI									
182		Betta	BETTA	DN80 - DN600						Gripper type accepted up to DN150	Use of Betta Valves with gripper/restraint joint is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations
183		AAP Industries	Maxifo/app/FLO	DN80 to DN300	WSAA Appraisal 11/26 Issue 2						
184	Derwent Industries	Derwent	DN80 - DN600	WSAA Appraisal 1511							
185	DAEMCO		DN80 to DN300	WSAA Appraisal 1517 (10/05/16)							
186	DI fittings - tees and crosses with thermal bonded polymeric coating and built in resilient seated gate valves and vertical hydrant outlet	No WSA PS but 260 for valve component 4.1 - PN16 4.2 - Flange-Flange 4.3 - Anti-Clockwise closing 4.4 - No requirement for spindle cap colour 4.5 - Extension Spindle to WSA PS - 262 4.6 - Spindle Cap 4.9 - SBR & EPDM	Hawle / Hygrade Water	Combi Valve	DN100, DN150 & DN200	Thermal bonded polymeric coating is the standard material in WSA PS 201 and WSA PS 212 All DI fittings to be wrapped	Use is subject to acceptance by SP		Use is subject to acceptance by SP	Not accepted by SP	Use is subject to acceptance by SP
187	Ball Valves	274 4.1 - PN16 4.2 - Body material: 316 stainless steel 4.3 - by product 4.4 - BSPT thread 4.5 - Clockwise closing	AVFI	V1 Series - 1 Piece V2 Series - 2 Piece V3 Series - 3 Piece V2FH Series- Flanged	DN8 - DN50 DN8 - DN100 DN8 - DN100 DN15 - DN50	BSPT threaded connections Suitable for sewage	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
188	CC-GRP (centrifugally cast) pipe and Fittings - Sewer Pipe	237S 4.1 - PN16 4.2 - SN10,000 minimum 4.3 - Soc-Sp RRJ 4.4 - Standard Glass 4.5 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN400 - DN1400	DI Fittings to WSA PS 201 for Tees and Bends			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP Coupling - Grade 316 Stainless Steel (min.)
189	FW-GRP (filament wound) pipe and Fittings - Sewer Pipe	205S 4.1 - As per product 4.2 - PN16 4.3 - SN10,000 minimum	Flowtite / Iplex	Flowtite	DN300 - DN3000	DI Fittings to WSA PS 201 for Tees and Bends			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP Coupling - Grade 316 Stainless Steel (min.)
190		4.4 - Bends, T-piece, Y-piece, Saddles, Reducers, Flanges and MH Couplings	Global Pipe	Fiberstrong	DN300 - DN4000						
191		4.5 - Soc-Sp RRJ 4.6 - Standard Glass 4.7 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN300 - DN3000						
192	Flowmeter - Network Meter	No WSAA PS	ABB	ABB				Use is subject to acceptance by SP	NOT ACCEPTED BY SP	ABB Water master	
193		4.1 - Flange to AS4087 Figure 5	Siemens	Siemens				Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	
194		4.2 - PN16	E & H	E & H				E & H 53W		Use is subject to acceptance by SP	
195			Emerson	Emerson				Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP

A	B	C	D	E	F	G	H	I	J	K	
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	The City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater	
<b>Category: SEWERAGE MISCELLANEOUS ITEMS</b>											
197	Maintenance structure covers, frames and risers	290 4.1 - DN600 4.2 - Round Solid Top ( Conc Infill - QUU only ) Sealed Type 4.3 - 600 mm Clear Opening 4.4 - Class B and Class D 4.5 - Rocking of cover in frame not permitted 4.6 - Lifting Key as per Standard Drawings 4.7 - Markings to AS3996 Clause 1.6 (a) to (f). 4.8 - No Hinge 4.9 - Standard Packaging and Delivery 4.10 - QUU require QUU cast in as per Standard Drawings 4.11 - Standard Coating 4.12 - Bolt down for Surcharge and overland flow areas, 4 x M8 (min) SS316 Bolts 4.13 - by Standards	Gatic / Milne		Refer Standard Drawings.  Covers with another Service Provider's name not accepted.  Use of Square and Rectangular Covers and Frames subject to SP approved based on Design needs	Concrete Infill Covers are NOT ACCEPTED BY SP	Concrete Infill Covers are NOT ACCEPTED BY SP	Concrete Infill Covers are NOT ACCEPTED BY SP		Concrete Infill Covers NOT ACCEPTED BY SP	
198		EJ									
199		Webforge									
200		Tellam									
201		Durham									
202		Hygrade									
203	Maintenance shaft covers, frames and risers DN<=450	292 4.1-DN<=450 Round 4.2-DN360 min clear opening 4.3-Standard Lifting Key 4.4-Markings to AS3996 Clause 1.6 (a) to (f) 4.5-Standard packaging 4.6-No specific markings required 4.7-No bolt down required	Smartstream	Smartstream Top Hat- P8HDS	DI-Class D			Use is subject to acceptance by SP	Use is subject to acceptance by SP		
204		Smartstream	Smartstream Top Hat- P8PEC	PE - Class B							
205		SYI Foundry/Aymroo	Aymroo	360 mm clear opening	CI - Class B						
206	Maintenance hole lightweight composite lids and frames (non-corrosive)	292 4.1-DN<=600 Round 4.2-DN600 min clear opening 4.3-Standard Lifting Key 4.4-Markings to AS3996 Clause 1.6 (a) to (f) 4.5-Standard packaging 4.6-No specific markings required 4.7-Bolt down for Surcharge and overland flow areas, 2 x M8 min SS316 Bolts	Terra Firma		Composite - Class B and D	Non-Corrosive MH lids and frames are required for Discharge Manholes and all Manholes for sewers DN300 and larger TMR approval is required on TMR roads	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
207			ACO SAKU		Composite - Class B					Use is subject to acceptance by SP	
208			Prime Composites		Composite – Class B and D					Use is subject to acceptance by SP	
209			EJ	EJ SERVO	Composite – Class B and D					Use is subject to acceptance by SP	
210	Emergency Storage maintenance hole cover	290 4.1 – DN1000 4.2 – Two part round 4.3 – 920 mm Clear Opening 4.4 – Class C 4.5 – Rocking of cover in frame not permitted 4.6 – Hand grip lifting points 4.7 – No requirements 4.8 – Central Hinge not required 4.9 – Standard Packaging and Delivery 4.10 – No requirements 4.11 – No requirements 4.12 – 4 x 3/8" Allen Key SS 316 Bolts 4.13 – Nil Seal ring SS 316	Treloar	MC1000-Manway Cover	DN900	Class C Fabricated S/Steel grade 316 ring Nitrile gasket seal			Use is subject to acceptance by SP		
211	Step irons	314 4.1 - Single Step 4.2 - Complies with Figure 5.10 of AS1657 4.3 - Steel bar internal with Plastic encapsulation or SS316 4.4 - Plastic encapsulation or SS316 4.5 - No reflectors required 4.6 - No other safety devices required	Miyama / Nextep	Miyama	M053	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		NOT ACCEPTED BY SP	
212			Aymroo	Aymroo							
213			C & C Plastics / Havestock	Posistep							
214			Industrial Steps & Ladders	Sure-Step							
215	Ladders	315 4.1 - Type D - Fixed Ladder with two Stiles 4.2 - PBT, FRP, SS316, Galvanised Steel or Aluminium 4.3 - By Standards 4.4 - By Standards 4.5 - Reflectors optional 4.6 - 150 mm from CL of rung to MH wall 4.7 - By Standards 4.8 - Colour as per material 4.9 - SS 316	Miyama / Nextep	Miyama	Fibre reinforced plastics (yellow). Brackets & Fasteners to be SS316 Min. Clearances for Rung Type Ladders as per AS1657 Fixed Platforms, Walkways, Stairways and Ladders - Design and Installation	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		NOT ACCEPTED BY SP	
216			Industrial Steps & Ladders	Add-A-Step	Revised installation procedure WSAA Product Update 1-2011, Subject to WSAA appraisal 5/11 and WSAA Product Alert 1-2010. Brackets as per manufacture specification. Fasteners to be SS316. Bright yellow.						
217			Galvanised Steel								
218			Stainless Steel or Aluminium		Refer to Standard Drawings						
219	Maintenance Shaft PVC	321 4.1 - As per Standards 4.2 - As per Specifications 4.3 - As per Standards 4.4 - Inlet and Outlet at DN150 to DN225 4.5 - Configurations as shown in Standard drawings 4.6 - As per accepted product 4.7 - Inlet and Outlet Sewer connection RRJ 4.8 - Cap as shown in Standard Drawings 4.9 - As per Standard Drawings 4.10 - Connect to PCV-U DWV pipe 4.11 - Max depth 3.0 metres FSL to Invert of Sewer Pipe	Aymroo	Aymroo	DN225 PVC-U Riser Shaft	Configurations of "Central Axis" maintenance shaft (CAMS) are not accepted	Refer to clause 6.7.2 of the SEQ Sewerage Code	Refer to clause 6.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	DN225 risers not accepted. Min DN300 risers are accepted.	
220	Maintenance Shafts PE	322 4.1 - As per Standards 4.2 - As per Specifications 4.3 - As per Standards 4.4.a - Inlet and Outlet at DN150 to DN225 for PVC RIGSS 4.4.b - Inlet and Outlet at DN160 to DN250 for PE Nusewer 4.5 - Configurations as shown in Standard drawings 4.6 - As per accepted product 4.7.a - Inlet and Outlet PVC Sewer connection RRJ 4.7.b - Inlet and Outlet PE Sewer connection Electrofusion 4.8 - Cap as shown in Standard Drawings 4.9 - As per Standard Drawings 4.10 - Max depth 3.0 metres FSL to Invert of Pipe	Smartstream	Poo-Pit		RIGSS DN225 PVC riser shaft. Nusewer fully welded with DN250 PE risers and sewer stubs.	Approved for DN150 to DN225 RIGSS only. Refer Standard Drawing SEQ-SEW-1314 Set for other approved PE MS and MH options	Approved for DN150 RIGSS only. Refer to clause 6.7.2 of the SEQ Sewerage Code	Approved for DN150 to DN225 RIGSS only. Refer to clause 6.7.2 of the SEQ Sewerage Code. Refer Standard Drawing SEQ-SEW-1314 Set for other approved PE MS and MH options	Max depth of 5.0 meters is acceptable	DN225 risers not accepted. Min DN300 risers are accepted.
221											

A	B	C	D	E	F	G	H	I	J	K
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	The City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
1	Maintenance Shafts Polypropylene - DN425 and DN600 risers	Iplex	EZpit PA 09/01 & PA 09/1-2		Refer Standard Drawings	Approved for DN150 to DN225 RIGSS only as per Cell B Base is single DN size	Refer to clause 6.7.2 of the SEQ Sewerage Code	Approved for DN150 to DN225 RIGSS only Base is single DN size Refer to clause 6.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	Approved for DN150 to DN225 RIGSS only as per cell B. Base is single DN size, NOT ACCEPTED FOR NUSEWER
222	Maintenance Shafts Polypropylene - DN225 and DN300 risers	SMS	SMS PA 09/08 parts 0 to 5 Code: MS1 Code: MS2 Code: MS5		Refer Standard Drawings	Approved for DN150 RIGSS only	Approved for DN150 RIGSS only Refer to clause 6.7.2 of the SEQ Sewerage Code	Approved for DN150 RIGSS only Refer to clause 6.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	Approved for DN150 RIGSS only. DN225 risers not accepted. Min DN300 risers are accepted.
223	Maintenance Shafts Polypropylene - DN225 and DN300 risers	REHAU	OD400-GD (Type H12) OD400-RML (Type H13)		Refer Standard Drawings	Approved for DN150 RIGSS only	Approved for DN150 RIGSS only Refer to clause 6.7.2 of the SEQ Sewerage Code	Approved for DN150 RIGSS only Refer to clause 6.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	Approved for DN150 RIGSS only. DN225 risers not accepted. Min DN300 risers are accepted.
224	Pre-cast Maintenance Holes	Humes		MH and MS DN150 and DN225 sewers	Refer Standard Drawings Use for larger Sewer DN's and MH diameters is subject to acceptance by SP Max depth of DN600 MS FSL to Invert of Pipe is 3.0 meters	DN600 Pre-cast pre-benched Channel base and Bowl base Maintenance shafts approved as shown in Standard Drawings	Use of MS is subject to acceptance by SP	Use of MS is subject to acceptance by SP	NOT ACCEPTED BY SP	Pre-cast MHs accepted Use of MS is subject to acceptance by SP
225	Pre-cast Concrete Converter Slab for Cast In-situ MHs	Everhard			Refer Standard Drawings Calcareous aggregates to be used					
226	Plastic Maintenance Holes	Tellam			Refer Standard Drawings Calcareous aggregates to be used					
227	Plastic Maintenance Holes	Smartstream	Smart Pit	DN150 to DN300 sewers	Refer Standard drawings Max depth FSL to Invert of Pipe is 3.0 meters		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
228	Vent poles	RPC Technologies			Refer Standard Drawings Tapered, Galvanised, height as design preferred colour: heritage or mist green	Accepted option is RPC for a GRP pole @ designed height	Accepted option is RPC for a GRP pole @ designed height	Accepted option is RPC for a GRP pole @ designed height	Use is subject to acceptance by SP	Use is subject to acceptance by SP
229	Valve box and cover C.I. & D.I.	Ingal EPS			Refer Water Code Standard Drawings for approved Valve Box and Cover				Accepted Height 12.0 m	Minimum accepted Height 6.0 m
230	Valve box and cover C.I. & D.I.	Viadux								
231	Valve box and cover C.I. & D.I.	NIBF								
232	Valve box and cover C.I. & D.I.	Gatic / Milne								
233	Valve box and cover C.I. & D.I.	Tellam								
234	Valve box and cover C.I. & D.I.	Hygrade Water	Hygrade Water				Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
235	Loose PE sleeving to DI pipe	Viadux					Gravity pipe Grey colour Pressure pipe Cream colour	Gravity pipe Grey colour Pressure pipe Cream colour	Gravity pipe Grey colour Pressure pipe Cream colour	
236	Loose PE sleeving to DI pipe	Crevet	BLUEBOSS Cream		Mandatory sleeving to all DI pipe		Gravity pipe Grey colour Pressure pipe Cream colour	Gravity pipe Grey colour Pressure pipe Cream colour	Gravity pipe Grey colour Pressure pipe Cream colour	
237	Embedment material - crushed rock									
238	Embedment material - crushed rock									
239	Embedment material - recycled concrete	Queensland Recycling					NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP
240	Embedment material - recycled concrete									
241	Concrete-Normal Class									
242	Concrete-Special Class (for Maintenance hole and for concrete in aggressive environment)						Calcareous aggregate size to be 10mm minimum. Admixtures shall be non-chloride type	Cast in-situ MH's Refer details on Standard Drawings Concrete N32 minimum	Cast in-situ MH's Refer details on Standard Drawings Concrete N32 minimum	Calcareous aggregate size to be 10mm minimum. Admixtures shall be non-chloride type
243	Gas release valves	ARI Flow control								
244	Gas release valves	Bermad								
245	Gas release valves	Vent-O-Mat		DN50-DN200	PN16, Anti Slam as required, Thermal bonded polymeric coating or 316 Stainless steel	DN225 and larger mains to only use Vinloc-Smartvalve			See drawing SEQ-SPS-1605-1 for standard gas release valve arrangement (manual operation). When QUU requires an automatic gas release valve, Vent Master PX is accepted. Use of others is subject to acceptance.	DN225 and larger mains to only use Vinloc-Smartvalve
246	Gas release valves	Odour Technologies	Vinloc-Smartvalve							
247	Gas release valves	AVFI	ARV-3-N							
248	Gas release valves	ISCO	Vent Master PX							
249	Non-return valves - Swing check with counterweight lever arm	HMA Valveco	Valmatic Swing-flex	DN50 - DN600						
250	Non-return valves - Swing check with counterweight lever arm	Dobbie Dico	Dobbie Dico	DN80-DN900						
251	Non-return valves - Swing check with counterweight lever arm	AVK	AVK Swing Check Valve 41/25	DN50	MIN. PN16, Thermal bonded polymeric coating			Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP
252	Non-return valves - Swing check with counterweight lever arm	AVK	AVK Swing Check Valve 41/8X	DN80-DN300						
253	Non-return valves - Swing check with counterweight lever arm	Challenger Valves	Challenger - RSSC	DN80-DN375						
254	Non-return valves - Swing check with counterweight lever arm	AVFI Pty Ltd	AVFI - RSFC	DN50-DN300						
255	Non-return valves - free acting (without counterweight) Swing Check	HMA Valveco	Valmatic Swing-flex	DN50 - DN600						
256	Non-return valves - free acting (without counterweight) Swing Check	Dobbie Dico	Dobbie Dico	DN80-DN900						
257	Non-return valves - free acting (without counterweight) Swing Check	AVK	AVK Swing Check Valve 41/25	DN50	MIN. PN16, Thermal bonded polymeric coating			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
258	Non-return valves - free acting (without counterweight) Swing Check	AVK	AVK Swing Check Valve 41/8X	DN80-DN300						
259	Non-return valves - free acting (without counterweight) Swing Check	Challenger Valves	Challenger - RSSC	DN80-DN375						
260	Non-return valves - free acting (without counterweight) Swing Check	AVFI Pty Ltd	AVFI - RSFC	DN50-DN300						
261	PVC-U Fabricated Fittings	Vindex			DWV uPVC Moulded Fitting reinforced to SEQ Standards. Type D Junction from moulded fittings welded and fibreglass wrapped.					
262	Fibreglass reinforced PVC Type 'D' junctions & fittings	Iplex	Deep Sewer Junction & Reinforced Fittings such as Oblique Junctions and House Connection Bends and Inspection Tees	DN100-300	45 Deg Oblique Jn and Property Connection bends and Inspection Tees fibreglass wrapped. Fabricator has Certification to Section 6 of AS/NZS 1260 and fittings Fibreglass wrapped as shown on the drawings SEQ-SEW-1104-1 and SEQ-SEW-1105-1.					DN100 at SN10, DN150 and larger at SN8 and Fittings at SN8 minimum
263	Fibreglass reinforced PVC Type 'D' junctions & fittings	Holman Industries								
264	Fibreglass reinforced PVC Type 'D' junctions & fittings	M.E. Christensen								

A	B	C	D	E	F	G	H	I	J	K
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	The City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
265	236 4.1 - SN8 minimum 4.2.1 - DN150 only, 3.0 metres radius as a heat formed bend with standard socket and spigot RRJ ends. No ovality variation permitted. 4.2.2 - DN225 only, 3.0 metres radius preferred, spigot spigot ends as a heat formed bend or as a fibreglass wrapped fabricated bend with 7.5 degree segments with 300 mm to 400 mm segment length on inside springline 4.2.3 - All long radius bends by Certified fabricators to AS/NZS 1260 Section 6 4.3 - SBR & EPDM	Vinindex	Long radius 3000 mm bends	DN150 as bent pipe & DN225 as bent or fabricated pipe	AS/NZS 1260 SN8 DN150 Bends available from 5Deg to 45Deg. DN225 and larger individually fabricated to 45Deg.		Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
266		Iplex								
267		Tri Underground								
268		Holman Industries								
269		M.E. Christensen								
270	318 4.1 - Tape/Product Colour - Drinking Water = Blue Non-Drinking Water = Purple. Sewerage = Cream 4.2 - Message = "Caution ASSET DESCRIPTION Buried Below" or "Danger Buried ASSET DESCRIPTION Below" 4.3 - SS 316 tracer wire 4.4 - See 4.1 above	Boddingtons								
271		Tapex	421							
272		Rain Harvesting				Use is subject to acceptance by SP				
273		Tracer wire	Tapex	Copperhead	500, 1000 and 2500 (feet)	Approved are SoloShot EHS and SoloShot Xtreme For HDD and Pipe bursting etc. Connectors to be used are: • Pipe burst connector, • DryConn 3-way direct bury lug connector • DryConn direct bury twist on connector Use of test station and/or grounding anode is accepted				
274	Security fencing				AS1725.1 Chain Link Fabric Fencing-powder coated black	Fence details generally to CoGC Standard Drawing 05-014	Fence details generally to CoGC Standard Drawing 05-014	Fence details generally to CoGC Standard Drawing 05-014		
275	Hydrophilic Seal		Hydrotite							
276	Casing Spacers	kwik-ZIP	kwik-ZIP	HDX Series with Runner height of 38, 65, 90 and 125 mm	For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes					
277	Camlock				S/Steel 316					Maximum DN100
278	Protective internal lining - Polyethylene	Steuler		min. 2.5 mm thickness	Mechanically anchored PE lining cast into wall & underside of top slab - Light colour					PE lining Mandatory for Sewerage Pump Stations, Collector Manholes and Sewer Rising Main Discharge Manholes
279		Agrusafe								
280		Bluey Technologies								
281		AKS								
282	Protective internal coating - other coating types	Peerless Industrial Systems	Epigen 4029		Colour white to grey	Internal coatings at 2.0 mm thick via minimum of two coats – this requirement overrides Note G14 on SEQ-SPS-1402-1.	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP (minimum 2.0 mm thickness)	Use is subject to acceptance by SP (minimum 2.0 mm thickness)
283		Epigen 1311 Ultra								
284		Sika Australia	Sikagard - 63N							
285		Hychem Epoxy Systems	Hychem TL5							
286		International Paints	Celcoat 2000 Flakeline							
287		ITWPF	Epirez 733UHB							
288		Fernco / JDP Applications	Ultracoat Epoxy Coating							
289		Interflow	Quadex Aluminaliner Plus							
290		BASF	MasterSeal 7000CR							
291		Building Chemical Supplies	Ombran MHP Ombran MHP SP3000	Accepted are Ombran MHP15 and MHP SP3000 Cementitious profiling and coating with min thickness of 12mm to be used for concrete MH repairs						
292	Protective external coating	Steuler KCH	Oxydur PTB		Colour white to grey & heritage green	Use is subject to acceptance by SP External coatings at 0.3 mm thick via single coat. SP Approved Equivalents are the listed internal coatings	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP (minimum 2.0 mm thickness)	Use is subject to acceptance by SP (minimum 2.0 mm thickness)



A	B	C	D	E	F	G	H	I	J	K
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	The City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
<b>Category: WATER SUPPLY PIPES - PRESSURE</b>										
293										
294	209 4.1 - PN16 4.2 - Drinking Water 4.3 - Series 2 only 4.4 - Blue 4.5 - SBR & EPDM	Iplex	Reiber Blue	DN100 to DN300	Series 2 PN16, Min SN 10 Reiber ring accepted	Either PN20 PVC-M or PN35 DI/DICL shall be used for carriageways and industrial/commercial areas.			Only accepted where PE is unsuitable	<b>NOT ACCEPTED BY SP</b>
295		Vinidex	Hydro Blue							
296		Viadux	Tuf-Flo							
297		Micron Pipelines	Micron Pipelines							
298		Pipemakers	Pipemakers Enviromain							
299	210 4.1 - PN16 4.2 - MRS400 or MRS450 4.3 - Water main 4.4 - Series 2 only, Blue for Drinking Water and Purple for Non-Drinking Water refer POP203 4.5 - SBR & EPDM	Iplex	Apollo Blue	DN100 to DN300	Series 2 PN16, Min SN 10 MRS400 or MRS450		SP USE ONLY	Use is subject to acceptance by SP	<b>NOT ACCEPTED BY SP</b>	
300		Vinidex	Supermain							
301		Micron Pipelines	Micron Pipelines							
302		Pipemakers	Alphamain							
303			TOM®	Up to DN 375		Use is subject to acceptance by SP				
304	200 4.1 - All Pressure Classes - see Column F 4.2 - As per Standards 4.3 - As per accepted product 4.4 - All fittings to be Fusion Bonded Polymeric Coated 4.5 - Restraint Joint Seals by approval 4.6 - SBR and EPDM 4.7 - PE sleeving is required on ALL DI pipes, including those with zinc-aluminium alloy coating, unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	Vinidex	ZAP-GP	DN250 - DN750 (not 225)	PN 20	<b>NOT ACCEPTED BY SP</b>			<b>NOT ACCEPTED BY SP</b>	Seal coat on pipes >= 450 Seal coat requirement is dependant on water quality. PN20 - Use is subject to acceptance by SP Restraint joint seals not suitable for: PN20 pipe; Aboveground applications: Combining joint restraint and thrust blocks; Epoxy or fusion coated spigots (incl Tytonextreme pipe); Other manufacturers sockets or other pipe materials. Use of Clover Pipelines and Beaver-Jindal is subject to acceptance by SP
305		Clover Pipelines	Clover/Xinxing (ZnAIRE400)							
306			Beaver-Jindal Australia/NZ		DN225 to DN750	PN 35 and Flange Class	Seal coat on all pipe sizes PN20 - Use is subject to acceptance by SP PN20 PVC-M and PN35 DI/DICL are preferred pipes for carriageways and industrial/commercial areas. Coating shall be minimum 400g/m2 Zn-Al alloy+100µm synthetic resin or minimum 900µm polyurethane or approved equivalent. Use of Clover Pipelines and Beaver-Jindal is subject to acceptance by SP	Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SP Use of Vinidex ZAP products is subject to acceptance by SP	Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SP Use of Clover Pipelines, Vinidex ZAP and Beaver-Jindal products is subject to acceptance by SP	Use is subject to acceptance by SP
307			Beaver-Jindal Australia/NZ							
308			Crevet / Iplex	Ironite (XINAL400+ coating)	Up to DN 750 (not 225)	PN 35 and Flange Class				Only accepted where PE is unsuitable. Seal coating required for all sizes. Use of Clover Pipelines, Vinidex ZAP products are subject to acceptance by SP
309			Vinidex	ZAP-GP						
310			Saint-Gobain	PAM/TYTON Hydroclass Zinalium						
311			Viadux	PAM/TYTON Hydroclass Zinalium	DN100 - DN750 (not 225)					
312		Clover Pipelines	Clover/Xinxing (ZnAIRE400)						Use is subject to acceptance by SP	
313	DI Pipe - ISO	VonRoll / Reece	Ducpur/ Ecopur	DN80 - 700	Polyurethane internal protection	Detector Tape for ISO Pipe spirally wound along pipe and over PE sleeve on Zinc/Bitumen pipe. Either PN20 PVC-M or PN35 DI/DICL shall be used for carriageways and industrial/commercial areas.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
314	Small DN Ductile Iron Water Main pipe at PE OD's	Saint-Gobain PAM	BLUTOP	DN75-DN160	Restrained Joints PN16 Unrestrained joints PN25	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
315	SCL pipe	Steel Mains	Sintakote	OD114, 168, 219, 257, 273, 324 to 2159.	Minimum thickness DN100 - 4.8 mm, >DN100 - 5 mm	Accepted for sizes >DN600	Accepted for sizes >DN600	Accepted for sizes >DN600	Only accepted where PE is unsuitable	Seal Coat requirement is dependant on water quality
316	207 4.1 - PN16 SDR11 PE100 4.2 - Drinking and Non-Drinking Water 4.3 - Pipes lengths for DN160 and larger and coils accepted for DN110 and smaller 4.4 - Mains Colour Blue Solid for Drinking Water and Purple solid for Non-Drinking Water with Water Service pipe Black with Blue Stripes for Drinking Water and Purple solid for Non-Drinking Water, refer POP203. 4.5 - PE100 only	Iplex		DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800	PE100 PN16 Blue colour - solid or striped for drinking water Purple colour - solid for non-drinking water For directional drilling installations, minimum SDR 9 (PN20 PE100) unless specified otherwise and install with tracer wire. Pipe wall thickness to be designed for installation forces.	1 - Used as Water Service pipe at DN25 to DN63 2 - Used as Drinking Water main at DN63 and DN110 in Dual Water Supply 3 - Used as A+ Non Drinking Water main for Cul-de-sac terminal end at DN63 in Dual Water Supply 4 - Used as Drinking Water main for Cul-de-sac terminal end at DN63 in traditional Drinking Water Reticulation	*Approved for water services and water mains <= DN63 only. Other uses, or the use of larger diameters, are subject to acceptance*	Use is subject to acceptance by SP	PE is preferred pipe material for single and dual water supply systems - PE shall be used unless specific site conditions dictate otherwise. Either solid or striped colours are permitted for single and/or dual water supply systems.	
317		Vinidex								
318		DMG								
319		Cromford	Identi-pipe							
320		Poly Pipe	Advantage/TYCO10							
321		Envriopipes	Envriopressure							
322		ASA	Blueline							DN25 to DN125
323		ACP	ACP							DN25 to DN315
324										
325	PE pipe - High Stress Crack Resistant (HSCR) Polyethylene Pipe	Iplex	Millennium HSCR PE	DN25 32 40 50 63 90 125 180 250 315 355 450 560 630 800	For directional drilling and pipe bursting installations, minimum SDR 9 (PN20 HSCR PE100) unless specified otherwise and install with tracer wire. Pipe wall thickness to be specified as normal PE100 as such "extra" strength should be provided.	1 - Used as Water Service pipe at DN25 and DN32 recommend PE80B pipe (DN50 and DN63 by CoGC) 2 - Used as Drinking Water main at DN63 and DN110 in Dual Water Supply 3 - Used as A+ Non Drinking Water main for Cul-de-sac terminal end at DN63 in Dual Water Supply 4 - Used as Drinking Water main for Cul-de-sac terminal end at DN63 in traditional Drinking Water Reticulation	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	

	A	B	C	D	E	F	G	H	I	J	K
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	The City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
326	Copper pipe	214 4.1 - Annealed for all pipe 4.2 - Natural pipe colour	Port Kembla Copper				Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use is subject to acceptance by SP
327	CC-GRP (centrifugally cast) pipe and Fittings - Water main	237 4.1 - PN16 minimum 4.2 - SN 10,000 minimum 4.3 - Sp-Sp RRJ Coupling and FI Joints 4.4 - Standard Glass 4.5 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN400 - DN1400	Minimum SN10000, PN16	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP	Use is subject to acceptance by SP
328	FW-GRP (filament wound) pipe and Fittings - Water main	205 4.1 - DN300 and larger 4.2 - PN16 minimum 4.3 - SN 10,000 minimum 4.4 - Standard bend forms permitted 4.5 - Sp-Sp RRJ Coupling and FI Joints 4.6 - Standard Glass 4.7 - SBR & EPDM	Flowtite / Iplex	Flowtite	DN300 - DN3000	Minimum SN10000, PN16	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP	Use is subject to acceptance by SP
Global Pipe			Fiberstrong	DN300 - DN4000							
Superlit / Clover Pipelines			Superlit	DN300 - DN3000							
330	Stainless Steel Pipe	No WSA-SP WSAA Materials Fact Sheet No:2 Selection of Stainless Steels WSAA Materials Fact Sheet No:3 Fabricating Stainless Steels	ASSDA accredited fabricators	N/A	DN100 - DN750	Min. Grade 316 Min. PN16 Flange to AS4087 Fig B5	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP

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Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	The City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater	
<b>Category: WATER SUPPLY FITTINGS - PRESSURE</b>											
333	Lightweight DI bends, tees/branches & connectors	201	Viadux	Auslite	DN100 & DN150	Lightweight fittings Thermal bonded polymeric coating All DI fittings to be wrapped	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use of Restrained Joint Rubber Rings (Tyton-lok) subject to acceptance by SP	
334		4.1 - Soc-Soc, Soc-FI & FI-FI	Dobbie Dico	Dobbie	DN100 to DN150						
335		4.2 - PN16 fittings	Himigiri Castings/Galvin Engineering / CivilPipes	Galvin	DN100 & DN150						
336		4.3 - By approval 4.3 - SBR & EPDM	Clover Pipelines	Clover	DN100 to DN150						
337	DI bends, tapers, tees/branches, connectors, risers & caps/blank ends	201	Viadux	Tyton Joint	Thermal bonded polymeric coating All DI fittings to be wrapped	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Caps / Blanks Ends not accepted	Use of Restrained Joint Rubber Rings (Tyton-lok) subject to acceptance by SP	
338		4.1 - Soc-Soc, Sp-Sp, FI-FI, Soc-Sp, Soc-FI & Sp-FI	Crevet / Iplex	Crevet							Up to DN750
339		4.2 - Standard and PN16 fittings	Vinidex	Superlink							DN100 & DN150
340		4.3 - Restraint Joint Seals by SP approval	Derwent								DN80 to DN300
341		4.4 - SBR & EPDM	Gillies								DN100 to DN250
342			Himigiri Castings/Galvin Engineering / CivilPipes	Galvin							DN80 to DN750
343			Dobbie Dico	Dobbie							DN80 to DN750
344			Mallet	Mallet							DN100 to DN150
345		Clover Pipelines									
346	DI mechanical couplings - Non End Thrust Restraint	270	Viadux	Gibault Ezigib & Vari-Gib	Long type All DI fittings to be wrapped DI must have thermal bonded polymeric coating	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Caps / Blank Ends not accepted	
347		4.1 - PN16	Crevet	Gibault & Universal Multigib							Up to DN750
348		4.2 - All pipe materials except PE	AVK	Gibault & Universal							Up to DN675
349		4.3 - Long Series	Viking Johnson	AVK Supa-Gib Couplings							
350		4.4 - Straight Soc-Soc	Derwent	MaxiFit, QuickFit							
351		4.5 - Stepped coupling require SP approval	DEKS	DEKS FLEXI-GIB							DN80 to DN750
352		4.6 - Flange end not used	Daemco	Reinoversal							Up to DN 600
353		4.7 - SBR & EPDM And SS316 bolts, nuts and washers	Clover Pipelines	Connect VPC							DN100 to DN150
354											
355	DI mechanical couplings - End Thrust Restraint (Gripper Type)	271	Hawle / Hygrade Water	Synoflex PN16 Restraint coupling for AC, DICL, SCL	DN50-DN300	Synoflex and +GF+ 3000 Plus are manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DN's may not suit the same pipe DN's for some pipe materials and sizes (e.g. DN200 CIOD pipes). In this case a larger gripper socket DN may need to be used. Contractors need to check the suitable gripper socket DN's for their pipes. Use of Synoflex and +GF+ 3000 plus is not accepted on PVC and GRP pipe materials	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	The use of gripper type fittings on AC, DI and SCL pipe subject to acceptance by SP	
356		4.1 - PN16	+GF+	Multi/joint 3000 Plus restraint type for AC, DICL, SCL							
357		4.2 - DI 4.3 - Short and Long Series 4.4 - Straight and Stepped and Flange Adaptor 4.5 - All DN Range options 4.6 - Flange Figure as specified with SS316 bolts, nuts and washers 4.7 - SBR & EPDM & Nitrile And SS316 bolts, nuts and washers	Nova Siria/Hygrade Water	Multigrip for all pipe material, For PVC and PE pipes use Nova Siria reinforcing liner inside the pipe when installing multigrip							DN350-DN1400
358	DI flanged telescopic flexible fitting	No WSA-PS Aligned to WSA_PS 201 and 270 with Flanges to AS 4087 Figure B5 To comply with WSA PS-201S when published	Hawle / Hygrade Water	Vario WSA PA 12/09	DN50 - DN200				Use by SP only		
359	Small DN Ductile Iron Restraint Fittings at PE ODs	Saint-Gobain PAM	IZIFIT		DN75-DN160	For use directly with PE and BLUTOP pipe.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
360	Pretapped connectors	201	Clover Pipelines	Clover	DN100 to DN150	Thermal bonded polymeric coating DN100 to DN150 with 4 x 20BSP tapping at 2 per side and DN200 to DN300 1 x 50BSP tapping	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
361		4.1 - Soc-Soc only	Viadux	Readytap	DN100 to 300						
362		4.2 - Standard and PN16 fittings	Crevet / Iplex	Pretapped	DN100 & DN150						
363		4.3 - Restraint Joint Seals by approval	Vinidex	Superlink	DN100 & DN150						
364		4.4 - SBR & EPDM	Himigiri Castings/Galvin Engineering / CivilPipes	Galvin	DN100 & DN150						
365		246	4N Products & Stockbrands	Supertap	DN100 & 150	Only used on Series 2 PVC pipe Not suitable for DI pipe WSAA Appraisal 12/18			SP USE ONLY	Use is subject to acceptance by SP	
366	316 SS repair clamps, flanged off-take clamps & BSP tapping clamps	313	Crevet	Wang	DN100 to DN300	Flanged off-take clamps approved Type R for DI, AC and CI host pipes and Type F for PVC-m, PVC-u only, to pipe manufacturers specifications. Host pipe to be of suitable condition. Daemco repair clamps only accepted.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Type R accepted only	
367		4.1 - Type R or F by SP approval	Viadux	Wang	DN100 to DN300						
368		4.2 - Pipe DN by SP approval	Cascade Control	Rapid Clamps	DN40 to DN350						
369		4.3 - Off-take DN by approval	Daemco	Norma Connect	DN80 to DN300						
370		4.4 - Min. PN16	AVK	AVK Series 748	Up to DN300						
371	Repair Couplings	270	Nova Siria/Hygrade Water	Duofit	DN 300 - DN2000		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
372	Flange DI off-take clamps	327	Hawle/Hygrade Water	Haku	DN110 to DN355	For use on PE pipe only, installed and commissioned in accordance with manufacturers recommendations	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
		4.1 - Pipe DN63 and larger (see WSA PS 207 above) - Off-take ID 20 mm minimum									
		4.2 - PN16									
		4.3 - Female Rp thread to AS ISO 7.1									
		4.4 - Without electrical isolation									

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Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	The City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater			
1													
373	Resilient Seated Gate Valves, thermal bonded polymeric coating.	AVK	Series 57 (light type only for DN100 & 150) Series 570 Series 36/80 Series 01/71 Series 55	Up to DN400	Anchor legs approved	DN500 and DN600 with DN100 By-pass DN750 with DN150 By-pass				Use of AVK SupaPlus restrained couplings is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations			
374		Hawle / Hygrade Water	E2 FL Ends E2 System 2000 A Valve FL & SOC Ends	DN100 - 200 DN50 - 300 DN80 - 200	WSAA Appraisal 11/23 WSAA Appraisal 06/07						Use is subject to acceptance by SP	Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.	
375		Viadux	Series 500 Auslite Auslite II Bayard Sureflow Auslite III	Up to DN600 DN80, 100 & 150 DN100 to DN300 DN50 - DN200 Up to DN 400	Anchor Legs approved With PE pipe tails approved						Use of Auslite II is subject to acceptance by SP		
376		Karon / Challenger	Karon	DN80 - DN600									
377		AVFI										Use is subject to acceptance by SP	
378		Betta	BETTA	DN80 - DN600								Gripper type accepted up to DN150	Use of Betta Valves with gripper/restraint joint is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations
379		AAP Industries	Maxflo/appFLO	DN80 to DN300	WSAA Appraisal 11/26 Issue 2							Use is subject to acceptance by SP	
380		Derwent Industries	Derwent	DN80 - DN600	WSAA Appraisal 1511								
381		DAEMCO		DN80 to DN300	WSAA Appraisal 1517 (10/05/16)								
382	DI fittings - tees and crosses with thermal bonded polymeric coating and built in resilient seated gate valves and vertical hydrant outlet	Hawle / Hygrade Water	Combi Valve	Dn100, DN150 & DN200	Thermal bonded polymeric coating. All DI fittings to be wrapped	Use is subject to acceptance by SP		Use is subject to acceptance by SP	<b>Not Accepted by SP</b>	Use is subject to acceptance by SP			
383	Butterfly Valves	Pentair / Viadux	Keystone	DN50-600 for wafer/lugged DN100-1000 double flanged	Body ductile iron with fusion bonded polymeric coating external to 300 µm, internal to 350 µm (min.) or high-build two-pack epoxy to 500 µm (min.). Disc stainless steel Grade 316. Shaft stainless steel Grade 316, 410, 420, 430 or 431. Seat EPDM. All fasteners stainless steel Grade 316. Operation Type: Lever or Gearbox. Gearbox ratio as per manufacturer's requirement, coating – high build two-pack Epoxy 275 µm (min.)	DN100 to DN250 Property Service valves are lugged and Anti-clockwise closing hand lever operated. DN375 and larger valves are double flanged and Anti-clockwise closing gearbox operated.	Use is subject to acceptance by SP Direction of closing: Anti-clockwise	Use is subject to acceptance by SP Direction of closing: Anti-clockwise	Use is subject to acceptance by SP	Direction of closing: Clockwise Wafer or Lugged valves not accepted without prior approval			
384		Ebro	Ebro										
385		AVFI	AVFI										
386		Valveco	Valveco										
387		Iplex	AVK										
388		Challenger	Challenger										
389	Hydroflow Distributors	Watts			Accepted wafer or lugged DN50 to DN300	Use is subject to acceptance by SP				Use is subject to acceptance by SP			
390	Hydrants	AVK	Series 30/00 non-swab and 30/10 for swab	DN80 - DN100	Removable Top Cap & Internal Assembly. Thermal bonded polymeric coating. Purple body and lug for recycled water.	DN100 Flange to A.S.4087 Fig B5 Purple Body and Lug for A+ Recycled water Swabbing type at main ends refer SEQ-WAT-1302-1	DN100 Flange to A.S.4087 Fig B5 Swabbing type at main ends refer SEQ-WAT-1302-1	DN100 Flange to A.S.4087 Fig B5 Swabbing type at main ends refer SEQ-WAT-1302-1	Swab type only accepted. DN100 flanged to AS 4087 Fig B5.	Swab type only accepted. All new hydrants are to be 100 mm with 100 mm flanges, 100 mm risers and spring heads			
391		Viadux	Sureflow										
392		Civil Pipe Supplies	BETTA normal & Swab										
393		AAP Industries	MAXIFLO/appFLO										
394		Derwent Industries	Derwent standard and Swab										
395		Dobbie Dico											
396	Hydrant and Air Valve Isolating Valves	AVK	No WSA-PS Aligned to WSA_PS 201 and 270 with Flanges to AS 4087 Figure B5 To comply with WSA PS-201S when published	DN80 - DN100	Thermal bonded polymeric coating Min. PN16	DN80 Flange to AS4087 Fig B5 Swabbing type at main ends refer SEQ-WAT-1302-1	DN80 Flange to AS4087 Fig B5 Swabbing type at main ends refer SEQ-WAT-1302-1	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Mandatory for Hydrants on Trunk Water mains >DN300 Isolator Valve for Hydrant - Min. DN100 Clockwise Opening Direction			
397		Viadux											
398		Crevet											
399	Valve box & cover C.I. or D.I.	Viadux	No WSA-PS Refer details on SEQ-WAT-1305-1 and SEQ-WAT-1306-1		Bitumen coated to AS 3750.4	Water Service ferrule Boxes for footpath are Viadux MFNSW-PTHBX or approved equivalent and for roadway are Viadux MVGO or approved equivalent as per Item 41 of 11-133 and as shown on 11-134 of CoGC metering standard drawings. Lids colour e.g. white are preferred to be painted in factory	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP			
400		NIBF / Iplex											
401		Tellam											
402		Gatic / Iplex											
403		Hygrade Water	Hygrade Water										
404	Hydrant box & cover C.I. or D.I.	Viadux	No WSA-PS Refer details on SEQ-WAT-1305-1 and SEQ-WAT-1306-1		Bitumen coated to AS 3750.4	Lids colour yellow are preferred to be painted in factory	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	<b>NOT ACCEPTED BY SP</b>			
405		NIBF / Iplex											
406		Tellam											
407		Gatic/Iplex											
408		Hygrade Water	Hygrade Water										
409	Valve & hydrant boxes (recycled plastics) & DI Covers	Viadux	No WSA-PS Refer details on SEQ-WAT-1305-1		Non-trafficable location only. H - Hydrants V - Valves AV - Air valve	Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2309-1	Coloured to SEQ-WAT-1300-1	Coloured to SEQ-WAT-1300-1	Coloured to SEQ-WAT-1300-1, SEQ-NDW-2122-1 and SEQ-NDW-2125-2	Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2209-1			
410		Crevet											
411		Vinidex											
412		Civilpipes	Daemco										
413	Plastic surround to valve/hydrant boxes	Replas Australia	No WSA-PS For sizes refer details on SEQ-WAT-1306-1		Non-trafficable location only.	Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2309-1	Coloured to SEQ-WAT-1300-1	Coloured to SEQ-WAT-1300-1	Coloured to SEQ-WAT-1300-1, SEQ-NDW-2122-1 and SEQ-NDW-2125-2	Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2209-1			
414	Valve extension spindles	Viadux	262 4.1 - DN100 to DN525/600 4.2 - Length by Design 4.3 - Valve extension spindles shall be coated with a polymeric coating to AS 4158 with 350 µm DFT (minimum), or Valve extension spindles shall be hot-dip galvanized in accordance with AS 4680. Spindle support with bearing at 1 per installation minimum and at 1.8 m max spacings		AS2638 Compliant								
415		NIBF / Iplex											
416		Forge Bros / Vinidex											
417		Challenger				Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP			
418	Flanges MS	Steel Mains	204 - Flanges 4.1 - PN16 minimum 4.2 - DN by Design subject to SP approval 4.3 - Flanged 4.4 - Seal coating for DN450 and larger 4.5 - Sintakote minimum for above ground 4.6 - Flanged at PN16 minimum 4.7 - Cathodic Protection by design 4.8 - Sintapipe lining option 4.9 - SBR & EPDM 4.10 - Sintakote minimum		Class 16 Thermal bonded polymeric coating								
419		NIBF / Iplex											

A	B	C	D	E	F	G	H	I	J	K
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	The City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
1	312 4.1 - PN16 min or as per Design 4.2 - Gasket as Standard with O-ring for required steel flanges 4.3 - Types WA, WC and WG subject to fluid needs 4.4 - DN as per design 4.5 - Material as per Standards 4.6 - Hardness as per range in Table 2 of WSA 109-2011 4.7 - Thickness of 3.0 mm at PN16 and 1.5 mm at PN35	All WSA PS-312 compliant products are accepted								
420	Flange gaskets and 'O' rings									
421	No WSA-PS Refer details on SEQ-WAT-1313-1				316 Stainless steel bolts					
422	208 DN63 2.(a) - AS/NZS4129 or EN 1254 acceptable Certification 4.1 - PN16 minimum 4.2 - Mechanical Polyethylene, Polypropylene or Copper Alloy both with approved Plastic grippers/olives/thimbles 4.3.1 - Transition - PE to Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4.3.2 - Coupling - PE to PE 4.4 - Flange not used 4.5 - SBR & EPDM	George Fischer			DN63 Metal male fittings connecting to plastic female fittings is not accepted	Only fittings with a Copper Alloy body and a Copper Alloy compression nut are approved for use			Use is subject to acceptance by SP	
423		Philmac / Philmac & Vinindex								
424		Plasson								
425		Talbot								
426		Alprene								
427		Iplex								
428		Viadux								
429	Hydroflow / SAB S.p.A	SAB Black Nut Blue Seal			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP			
430	208 DN63 and larger 2.(a) AS/NZS4129 or EN 1555 or EN 12201 or EN 13244 is acceptable. 4.1 - PN16 minimum 4.2 - Electrofusion and butt weld 4.3 - Couplings, tees, bends, elbows/adjustable elbows, end caps, stub flanges, saddles, reducers 4.4 - AS 4087 compatibility for mating flange 4.5 - SBR & EPDM	Plasson		Coupler up to DN710	Comply with AS4129, PN16, Electrofusion fittings to be long type. Stub flanges only to be used for sizes DN450 and larger	Accepted for DN63 and DN110	Accepted for DN63 and DN110	Accepted for DN63 and DN110	Flanged tees and flanged saddles are not accepted by SP	Flanged tees and flanged saddles are not accepted by SP
431		George Fischer	ELGEF Plus Draw - Lock							
432		Friatec / Vinindex	Frialen	DN250-560 with branch DN32-90						
433		Agru	Agru	Coupler up to DN630						
434		Fusion Group / FusionPlast	Fusamatic	Up to DN630						
435		NUPIGECO	Elofit	DN20 to DN710						
436		Hydroflow / Plastitalia S.p.A	PLAST	Up to DN630						
437		Mako	Mako	Up to DN630						
438		Simona / Plasson	Simona	Up to DN500						
439		PE fittings - Moulded (for mains and large service pipes)	Agru	Aguline						
440	PE fittings - Fabricated	Adroit	Adroit		Butt Welded Fittings	Accepted for DN63 and DN110	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
441	Full face PE flanges (for reticulation sizes)	Simona / Plasson	Simona		DN90 riser with slotted flanges suit both DN80 & DN100 flanged hydrants to WSA 98/50	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP
442		Plasson		DN80 / DN100						
443		Iplex		Up to DN355					Full face full bore connections	
444		Friatec / Vinindex	Frialen	Up to DN180					Metal insert in the flange, backing rings not required	
445		Rodney / Vinindex	Maxi Stub	Up to DN355					Full face full bore connections	
446	DI Restraint fittings (for PE) - couplings, flange adaptors, tees, bends, end caps	Hawle / Hygrade Water	System 2000 Synoflex	Up to DN630	Restraint type, Flange adaptor up to DN355 shall be full bore connection				Only accepted for use where welded joints are not practical	Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.
447		+GF+	Multi/Join 3000	Up to DN355						
448		AVK	Supa Plus	Up to DN315						
449		Viking Johnson / Philmac	AquaFast AquaGrip	Up to DN630						
450	Daemco	Xcel Restrained Coupling and Flange Adaptor	DN63 to DN315 for Coupling and DN63 to DN200 for Flange Adaptor		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use of Daemco Xcel Restrained Couplings is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations	
451	PE scour Tees	Vinindex / Rodney			Comply with AS4129	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
452		Kingston Bridge / Iplex								
453	Air valves	ARI Flow control			PN16, Double Orifice as required, Thermal bonded polymeric coating	DN40 and DN50 BSP threaded to have Brass base	DN40 and DN50 BSP threaded to have Brass base.	DN40 and DN50 BSP threaded to have Brass base.	Use is subject to acceptance by SP	NOT ACCEPTED BY SP
454		Bermad		DN50-DN200						
455		Vent-O-Mat								
456		AVFI	DAV-MH							
457		ISCO	Vent Master PX							

A	B	C	D	E	F	G	H	I	J	K
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	The City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
458	264 Refer Appendix B of AS4794 a) Class - PN16 min - Size by Design b) Medium - Water c) Installation - Horizontal d) Spindle - Extended e) Lever and Counterweight minimum with switches and indicators by Design f) Flanged to AS 4087 Figure B5	HMA Valveco	Valmatic Swing-flex	DN50 - DN600	Min. PN16, Thermal bonded polymeric coating	NOT ACCEPTED BY SP	Only use valves with capacity for lever arm to open and close the valve AVK and Dobbie Dico are acceptable  CHALLENGER and other valves without lever arm NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP
459		Dobbie Dico	Dobbie Dico	DN80-DN900						
460		AVK	AVK Swing Check Valve 41/25	DN50						
461		AVK	AVK Swing Check Valve 41/8X	DN80-DN300						
462		Challenger Valves	Challenger - RSSC	DN80-DN375						
463		AVFI Pty Ltd	AVFI - RSFC	DN50-DN300						
464	264 Refer Appendix B of AS4794 a) Class - PN16 min - Size by Design b) Medium - Water c) Installation - Horizontal d) Spindle - Extended e) Lever and Counterweight minimum with switches and indicators by Design f) Flanged to AS 4087 Figure B5	HMA Valveco	Valmatic Swing-flex	DN50 - DN600	Min. PN16, Thermal bonded polymeric coating	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
465		Dobbie Dico	Dobbie Dico	DN80-DN900						
466		AVK	AVK Swing Check Valve 41/25	DN50						
467		AVK	AVK Swing Check Valve 41/8X	DN80-DN300						
468		Challenger Valves	Challenger - RSSC	DN80-DN375						
469		AVFI Pty Ltd	AVFI - RSFC	DN50-DN300						
470	268 See Appendix B of AS5081:2008	Bermad Water Technologies	Bermad	DN40 - DN900	Min PN16, Thermal bonded polymeric coating	Dorot 300 Series for Pressure Reducing Valve and for associated Pressure Relief Valve (Dump Valve) Dorot 200 Series or Bermad IR-43Q Valve	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP (In PRV installations where upstream pressures can be within 50 kPa of the required downstream pressure, Plasson C valves are preferred).
471		Singer / HMA Valveco	Singer							
472		Plasson Australia Pty Ltd	Plasson C-Valve							
473		Dorot Australia Pty Ltd	Dorot 300 Series							
474		Cla-Val Pacific / Challenger	Cla-Val	DN25-DN1200						
475	268 See Appendix B of AS5081:2008	Bermad Water Technologies	Bermad	DN 40 - DN900	Min PN16, Thermal bonded polymeric coating	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
476		Singer / HMA Valveco	Singer							
477		Dorot Australia Pty Ltd	Dorot 300 Series	DN25-DN1200 (Sustaining)						
478		Cla-Val Pacific / Challenger	Cla-Val	DN-80-DN1200 (Altitude)						
479	PE Flex Restraint Fitting (used as puddle flange)	+GF+		Up to DN1600	E-F type follow manufacturer's requirements.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	
480		Plasson		Fits DN160 to DN1600 PE Pipe	PE100/ PE4710 resin					
481	201 4.1 - FI-FI for DJ & FI/Sp for UniFlange 4.2 - Thrust type and non-thrust type minimum PN16 4.3 - Thrust Restraint by Fitting 4.4 - SBR & EPDM	Viadux			Thrust restraint type and non-thrust type are Flanged to AS4087 PN16. SS316 bolts, nuts and washers. Larger sizes of UniFlange shall be assessed for available Fitting PN vs Pipeline Test Head.	For Mains only, restrained type only	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Uni-flange to be used within pit or aboveground locations only
482		Viking Johnson				For Meter Assemblies only, restrained type only				
483		Valveco	Uni-Flange Adaptor	DN50-DN500		Use is limited - refer to SP for advice				
484		Hygrade Water	Pipemate	DN80-DN900		For Meter Assemblies only, restrained type only				
485		AVFI	AFD10 Series	DN80-DN1200		For Mains only, restrained type only				
486		AVFI	AFD20 Series	DN80-DN1200		For Meter Assemblies only, restrained type only				
487	No WSAA PS 4.1 - Flange to AS4087 Figure 5 4.2 - PN16	ABB	ABB		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	ABB Water master Use is subject to acceptance by SP
488		Siemens	Siemens							
489		E & H	E & H							
490		Emerson	Emerson							

A	B	C	D	E	F	G	H	I	J	K
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	The City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
<b>Category: WATER SERVICES</b>										
491		Viadux								
492		Gatic / Milne			Gunmetal - Positive stops					
493	Tapping bands for DI & PVC pipes	RMC						SP USE ONLY	RMC tapping band also accepted on AC pipe	SP USE ONLY
494		4N Products & Stockbrands	4N	DN100, 150, 200	Positive stops, coloured blue WSAA Appraisal PA10/18	NOT ACCEPTED BY SP				
495										
496	Tapping bands for PE - mechanical	Gatic / Milne		DN63-DN315	Gunmetal - Positive stops Only for where E-F saddles are not practicable	NOT ACCEPTED BY SP				NOT ACCEPTED BY SP
497		4N Products & Stockbrands	4N	DN63, 90, 125 & 180	Positive stops, coloured black Only for where E-F saddles are not practicable WSAA Appraisal PA10/19			SP USE ONLY		
498		Hawle / Hygrade Water	Haku	DN63 - DN315	Ductile iron lower half		Use is subject to acceptance by SP			
499		Hawle / Hygrade Water	Haku	DN250 - DN630	Stainless steel strap lower half				NOT ACCEPTED BY SP	
500		Plasson								
501		George Fischer		DN63, 90, 125 & 180		Accepted for DN63 and DN110				
502	Tapping saddle for PE - electrofusion	Friatec / Vinidex	Frialen		Comply with AS4129 PN16		SP USE ONLY	Accepted for DN63 and DN110		
503		Fusion Group / FusionPlast	Fusamatic	Up to DN355		Use is subject to acceptance by SP			Flanged saddles are not accepted by SP	Flanged saddles are not accepted by SP
504		Hydroflow	Plastitalia	Up to DN315		Accepted for DN63 and DN110	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
505	Tapping saddle for PE - Electrofusion - High Stress Crack Resistant (HSCR)	329 329.2.(a) - EN Standards accepted 4.1 - Pipe DN63 and larger ( see WSA PS 207 above ) - Off-take ID 20 mm minimum 4.2 - PN16 4.3 - Combined Saddle and Outlet off-take with integral cutter/shut off 4.4 - Without electrical Isolation	Agru	Aguline	Up to DN250	Comply with AS4129 PN16	Accepted for DN63 and DN110	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
506	Ferrules - TPFNR Bonnet Ferrule Cocks	No WSA-PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS 3688. 2 - PN16 with ability for under pressure tapping 3 - Male R thread to AS ISO 7.1 4 - Outlet fitting PE to WSA PS 207 or Copper to WSA PS 214 5 - DN50 to include 90 degree bend with union connection to AS3688 at outlet	Gatic / Milne			Dezincification resistant material and comply with AS/NZS 3688			SP USE ONLY	
507		Elster								
508		RMC								
509	Ball valves - Water Service	274 4.1 - PN16 minimum 4.2 - Plastic not permitted, Body and Handle to be DR copper alloy 4.3 - By accepted product 4.4 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 or PE Compression 4.5 - 90 Degree closure with 38 mm handle for maintap and 50 mm handle for meter. Meter ball valve with Locking open/close function 4.6 - Water Supply Property Service	Gatic / Milne			Dezincification resistant material and comply with AS/NZS 3688	Accepted for DN20 & DN25 Ball Valves with integral PE connections shall have a Copper Alloy body and a Copper Alloy compression nut for the pipe connection	Accepted for DN20 and DN25 at meter end of services	Accepted for DN20 & DN25	Ball valves must be capable of being locked by the customer with their own padlock.
510		Elster								
511		RMC								
512		Zetco TOF								
513		Cimberio / Strongcast	Strongcast							
514		Austworld	LOGI VALVE							
515	Union stopcock	No WSA-PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS 3688. 2 - PN 16 3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4 - Watermark acceptance	Gatic / Milne			25 mm Dezincification resistant material and comply with AS/NZS 3688	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	
516		Elster								
517		RMC								
518	Slip Coupling	No WSA-PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3565.1, AS 3718 and AS 3688. 2 - PN 16 3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4 - Watermark acceptance 5 - Coupling to have 5mm to 20mm movement with locking nut	Elster	DN20 and DN25		Dezincification resistant material and comply with AS/NZS 3688 Shall have a locking nut and a metallic stopper to prevent moving apart or kinking between the moving parts	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP
519		All Valve Industries								
520		RMC		DN20						
521		Strongcast								
522		Austworld					Both configurations of individual and combined with ball valves are accepted			
523	Transition couplers	208 or 247 Up to DN63 2.(a) - AS/NZS4129, EN1254 or equivalent acceptable Certification 4.1 - PN16 minimum 4.2 - Mechanical Polyethylene or Copper Alloy both with approved Plastic grippers/olives/thimbles 4.3.1 - Transition - PE to Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4.3.2 - Coupling - PE to PE not used	Plasson			PE electro-fusion to BSP connections Metal male fittings connecting to plastic female fittings is not accepted				Push fitting not accepted by SP
524		+GF+								
525		Friatec / Vinidex					Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	

A	B	C	D	E	F	G	H	I	J	K
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	The City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
526	PE mechanical compression fittings for Small Diameter Water Service pipes	George Fischer		DN25 to DN63	PE to PE or PE to BSP PN16 Push fit type is not accepted Metal male fittings connecting to plastic female fittings is not accepted.	Only fittings with a Copper Alloy body and a Copper Alloy compression nut are approved for use	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
527		Philmac / Philmac & Vinindex								
528		Plasson								
529		Elster								
530		Zetco TOF								
531		Talbot								
532		Alprene								
533		Iplex								
534		Viadux								
535		NUPIGECO	Elopress							
536	Austworld	Metforge	DN25 & DN 32							
537	Hydroflow / SAB S.p.A	SAB Black Nut Bluseal	DN25 to DN63							
538	Meters - 20 mm (direct and sub-metering applications)	Elster	V100 (PSM-T) (WM202PD)		Purple body for non-drinking water Accuracy Class 2 Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Only accepted for above ground installation	
539		Elster	V200							
540		Itron	TD8							
541		RMC	WM273MRP multijet							
542		RMC	WM281MRP multijet							
543	GVT	TPWM								
544	Meters - 25 mm (direct and sub-metering applications)	Elster	V100 (PSM-T) (WM252PD)		Purple body for non-drinking water Accuracy Class 2 Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Only accepted for above ground installation	
545		Elster	V200							
546		Itron	TD8							
547		RMC	WM271MRP multijet							
548	Meters - 32 mm (direct and sub-metering applications)	Elster	V100 (PSM-T)		Purple body for non-drinking water Accuracy Class 2 Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	NOT ACCEPTED BY SP		Use is subject to acceptance by SP		
549		Elster	V200							
550		Itron	TD8							
551		RMC	MRP							
552	Meters - 40 mm (direct and sub-metering applications)	Elster	V100 (PSM-T)		Purple body for non-drinking water Accuracy Class 2 Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
553		Itron	Flostar M							
554	Meters - 50 mm and larger (direct and sub-metering applications)	Elster	H4000 Woltmann		Purple body for non-drinking water Accuracy Class 2 Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Above ground installation with external top accessible (basket type) inline strainers
555		Elster	H5000							
556		Arad / RMC	Woltmann Silver Turbo							
557		Itron	Flostar M							
558		Itron	Woltex							
559	Sensus	Meistream								
560	Inline Strainer	Elster	Kent H4010 Strainer	Up to DN150	PN16 F-FI Basket Type	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Only Flat-top accepted	
561		Hydromet		Up to DN200						
562		Virginia Metals		Up to DN200						
563	Flowmeters	Arad Ultrasonica / RMC	Octave		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Arad Octave Ultrasonic and Siemens Sitrans FM Mag 8000 acceptable	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
564		Siemens Eletromagnetic	Siemens							
565		Siemens Ultrasonic	Siemens							
566		E & H Electromagnetic	E & H							
567		E & H Ultrasonic	E & H							
568		Emerson	Emerson							
569	ABB	ABB								
570	Automatic Meter Reading (AMR) Systems (sub-metering applications)	Enware	Enware		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Hard-wired systems only. Only Elster Reed Switches to be used. One DER (digital electronic read outs) panel per building.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP
571		Epitomy	Epitomy							
572		Utility Technology	Utility Technology							
573		Halytech	Spider							
574		Ausmeter	Ausmeter							
575		Itron	Everblu							
576	SUMS	Vivid Multi Logger								
577	Meter boxes	Everhard Industries		368L * 271W * 316D (for 20 mm meters only)	Blue, Black or Green meter box lids	Blue Lid not permitted	Blue Lid not permitted	Blue Lid not permitted	NOT ACCEPTED BY SP	Purple lid for non-drinking water meter box Black or green lid for drinking water meter box Blue lid not permitted
578		Everhard Industries		492L * 271W * 316D						
579		Draper		440L * 275W * 280D						
580		Strongcast		427L * 267W * 316D						



	A	B	C	D	E	F	G	H	I	J	K			
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	The City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater			
581	Single check detector check valves	No WSA-PS 1 - Single Check valve to AS/NZS 2845.1 2 - Fitted with compliant meters as per above	Pentair/Viadux	VALVCHEQ	DN100 & DN150	Model SC03. Flanged connection & spring set to 50 kPa	<b>NOT ACCEPTED BY SP</b>	<b>NOT ACCEPTED BY SP</b>	<b>NOT ACCEPTED BY SP</b>	Fitted with top accessible (basket type) inline strainer				
582	Double check valve (DCV), Double check detector assembly (DCDA)	No WSA-PS AS/NZS 2845	Pentair/Viadux	VALVCHEQ	DN40, 50, 100 & 150		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP				
583			Bermad	Cia-Val										
584			Hydroflow Distributors	Watts								Use is subject to acceptance by SP		
585	Pre-assembled dual meter boxes	No WSA-PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Elster		DN20	Drinking & Drinking or Drinking & Non-drinking Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Install pre-assembled dual boxes as per SEQ-WAT-1106 set as well	Subject to Approval of SP	Install approved pre-assembled boxes as per SP requirements	<b>NOT ACCEPTED BY SP</b>	Use is subject to acceptance by SP			
586			Tellam											
587			RMC	KIT235 WMKIT235								Use is subject to acceptance by SP		
588	Pre-assembled single meter boxes	No WSA-PS 1 - approved Supplier Assemblies as per SEQ-SP requirements	Strongcast	SCMBA20	DN20	Drinking Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Install pre-assembled single boxes as per SEQ-WAT-1106 set as well	Install approved pre-assembled boxes as per SEQ-WAT-1110 set	Install approved pre-assembled boxes as per SP requirements		Use is subject to acceptance by SP			
589			Elster											
590			Tellam											
591			RMC	KIT236 WMKIT236								Use is subject to acceptance by SP		
592	Sub-meter assemblies	No WSA-PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Elster	46492-00	DN25	Drinking or Non-drinking Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy For wall bracket assemblies the wall bracket shall be stainless steel rigid type	Only accepted with the use of approved slip couplings	<b>NOT ACCEPTED BY SP</b>	Use is subject to acceptance by SP	Install approved sub-meter assemblies as per SP requirements	Only accepted with no slip coupling	Use is subject to acceptance by SP		
593			Elster	46491-00										
594			Tellam		DN20		All Valve Strongcast Austworld RMC	SMA20M SCMLM20 SMK KIT227 KIT227Q	Only accepted with the use of approved slip couplings	Install as per CoGC Sub-Meter Guideline	Use is subject to acceptance by SP	Install approved sub-meter assemblies as per SP requirements	Use is subject to acceptance by SP	Slip Coupling not accepted
595			All Valve	SMA20M										
596			Strongcast	SCMLM20										
597			Austworld	SMK										
598			RMC	KIT227										
599			RMC	KIT227Q										
600	Dual Check valves for Meter assemblies DN40 and Larger	No WSA-PS 1 - Certified to AS/NZS 2845.1 2 - Non-Testable 3 - PN16 and Flanged to AS4087 Figure B5 4 - Ductile Iron body with AS4158 coating and lining or SS316 body or SS304 body if SS316 unavailable	Pentair/Viadux	VALVCHEQ		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Alternatively figure DC03 double check valves are acceptable	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP			
601			Hydroflow Distributors	Watts								Use is subject to acceptance by SP		
602	Reduced pressure zone device (RPZD), Reduced pressure detector assembly (RPDA)	No WSA_PS AS/NZS 2845	LWG Zum	Model 375						Any brand with ISO Type 5 product certification to AS2845 is accepted	UW prefers RP03 RPZ			
603			RMC											
604			Pentair/Viadux	RP03								Use is subject to acceptance by SP		
605	Hydroflow Distributors	Watts	Use is subject to acceptance by SP											
606	Pressure Limiting Valve for Water Services	No WSA-PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS 3688. 2 - PN 16 3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4 - Watermark acceptance 5 - Set point 50 m	RMC		DN15 - DN50	Dezincification resistant material and comply with AS/NZS 3688 Stainless Steel seat Not buried	Not used - Private Plumbing facility	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Not used - Private Plumbing facility	Use is subject to acceptance by SP			
607			NEFA											
608			Hydroflow Distributors	Watts								Use is subject to acceptance by SP		

A	B	C	D	E	F	G	H	I	J	K
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	The City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
<b>Category: WATER SUPPLY MISCELLANEOUS ITEMS</b>										
610	Detectable marker tape	318 4.1 - Tape/Product Colour - Drinking Water = Blue Non-Drinking Water = Purple. Sewerage = Cream 4.2 - Message = "Caution ASSET DESCRIPTION Buried Below" or "Danger Buried ASSET DESCRIPTION Below" 4.3 - SS 316 tracer wire 4.4 - See 4.1 above	Boddingtons							
611		Tapex								
612		LWG Zurn								
613		Rain Harvesting	421			Use is subject to acceptance by SP				
614	Tracer wire	343 4.1 - CCS shall be AISI 1055 grade or higher 4.2 - Wire gauge Shall be 12 or thicker 4.3 - Minimum 520Kg 4.4 - Minimum 45ml 4.5 - minimum 1% 4.6 - as per standards 4.7 - as per standards 4.8 - Blue for Water Supply, Purple for Recycled Water and Cream for Pressure Sewer.	Tapex	Copperhead	500, 1000 and 2500 (feet)	Approved are SoloShot EHS and SoloShot Xtreme For HDD and Pipe bursting etc. Connectors to be used are: • Pipe burst connector. • DryConn 3-way direct bury lug connector • DryConn direct bury twist on connector Use of test station and/or grounding anode is accepted				
615	Loose PE sleeving to DI pipe	320	Viadux	BLUEBOSS blue		Mandatory sleeving to all DI pipe Colours are Blue for Drinking Water and Purple for Non Drinking Water to POP203				
616			Crevet							
617	PVC - M conduits	209 4.1 - PN12 4.2 - Water Service Conduit 4.3 - Series 1 SCJ 4.4 - White for Water Conduit 4.5 - SCJ only	Virindex	Hydro S1		PN12 Series 1		LCC also accepts 100 dia uPVC PN9 Series 1		UW requires uPVC PN9 series 1 with solvent weld joint- Refer drawing SEQ-WAT-1108-1.
618			Iplex							
619			Viadux							
620	Embedment material - crushed rock	351 4.1 - Single sized. 4.2 - Nominal 5 or 7 mm								
621	Embedment material - recycled concrete	366 4.1 - Single sized 10 mm nominal 4.2 - Moisture Content by design	Queensland Recycling			NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP
622	Bedding sand	AS/NZS 2566.2 Table G3 for sand.				Main pipe use is subject to acceptance by SP Service pipe use mandatory	Main pipe use is subject to acceptance by SP Service pipe use mandatory	Main pipe use is subject to acceptance by SP Service pipe use mandatory		
623	Concrete	357 4.1 - N20 for Thrust Blocks and Unreinforced embedment. N25 for reinforced embedment 4.2 - Slumps as required for placement				Normal class				
624	Security fencing				AS1725.1 Chain Link Fabric Fencing-powder coated black	Fence details generally to CoGC Standard Drawing 05-014	Fence details generally to CoGC Standard Drawing 05-014	Fence details generally to CoGC Standard Drawing 05-014	Use is subject to acceptance of SP	In accordance with Unitywater's specification Pr9903 - Specification for Building and Structural Works, Section 5.15 Security Fencing.
625	Casing Spacers	324 4.1 - Carrier pipes OD from 100mm to 1668mm 4.2 - Min space between carrier pipes and encasing pipes 50mm	kwik-ZIP	kwik-ZIP	HDX Series with Runner height of 38, 65, 90 and 125 mm	For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes				
626	Plastic marker post	1- Comply with Main Roads specification MRS11.14	Park International		1350 mm Long x 100 mm Wide x 4 mm Thick	As per SEQ-WAT-1300-2				
627	Kerb Markers	No WSA - PS	All products meeting the specified requirements are accepted		Brass at DN40 (cast-in) or SS at DN38 (cast-in or Pin set) with 22 high lettering	As per SEQ-WAT-1300-1			Only Brass markers accepted for conduit markers	Only Brass markers accepted
628	Camlock					S/Steel 316				Maximum DN100
629	Valve pit access cover and frame	290 4.1 - 600 x 900 mm (Min) 4.2 - solid top, Sealed Type 4.3 - 600 by 900 mm Clear Opening (Min.) 4.4 - Class B for non-trafficable areas, and Class D for trafficable areas 4.5 - Rocking of cover in frame not permitted 4.6 - Lifting Key as per Standard Drawings 4.7 - Markings to AS3996 Clause 1.6 (a) to (f). 4.8 - Hinge ( Unitywater requires no Hinged access cover) 4.9 - Standard Packaging and Delivery 4.10 - QUU require QUU cast in as per Standard Drawings 4.11 - Standard Coating 4.12 - Bolt down requirement by design 4.13 - Weatherproof (sealed) Aluminium	McBerns (Aluminium)			Refer Standard Drawing SEQ-WAT-1308-1	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
630			Gatic							
631			Tellam							
632			Webforge							
633			Hygrade							
634			EJ							
635	Durham									
636	Valve pit lightweight composite lids and frames (non-corrosive)	292 4.1-600 x 900 mm (Min.) 4.2-600 by 900 mm Clear Opening (Min.) 4.3-Standard Lifting Key 4.4-Markings to AS3996 Clause 1.6 (a) to (f) 4.5-Standard packaging 4.6-No specific markings required 4.7 - Bolt down requirement by design	Prime Composites			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
637	Protective external coating	No WSA Product Specification 4.1 Two component solvent free polyurethane 4.2 Suitable for provision of single coats >=0.6mm thick 4.3 Excellent stated resistance to Sulphuric Acid via Test results 4.4 Minimum 15 minute Pot Life at 20 degrees C 4.5 Light coloured 4.6 Applied to manufacturers requirements 4.7 Combined 10 year warranty from Applicator and Manufacturer	Steuler KCH	Oxydur PTB		Colour white to grey & heritage green	Use is subject to acceptance by SP External coatings at 0.3 mm thick via single coat. SP Approved Equivalents are the listed Internal coatings	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP (minimum 2.0 mm thickness)

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Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	The City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
<b>Category: EMERGENCY STORAGE CHAMBERS</b>										
639	Emergency Storage Chamber  402 2(a) – WSA 129:2011 (or equivalent) 4.1 to 4.4 – Requirements to be specified by SEQ-SP on a case-by-case basis.	Envirotank Pty Ltd	Envirotank - Water/Wastewater Tank	From 4.8 m x 1.2 m dia. (5kl) to 16.4 m x 3.0 m dia. (110kl)	Fibreglass construction As per SEQ-SPS-1402-1	Use Accepted - 30 Year Warranty	Use Accepted - 30 Year Warranty	Use Accepted - 30 Year Warranty	Use is subject to acceptance by SP	Use Accepted - 30 Year Warranty
640		Rocla	Concrete Detention System	Conc. Box units (2.4 m modules)	Reinforced Concrete - Sacrificial layer or Plastilined As per SEQ-SPS-1402-1	CoGC accepts only PE lined Pipe	LCC accepts only PE lined Pipe	RCC accepts only PE lined Pipe		UW accepts only PE lined Pipe
641		Humes		Conc. Pipe units (2.44 m modules)						
642		Rocla	Plastic Detention System 'Plastream'	1.5 m to 2.25 m dia (10kl to 250kl)	PE spirally wound steel-reinforced pipe As per SEQ-SPS-1402-1	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	<b>NOT ACCEPTED BY SP</b> Use Accepted with condition of 30 Year Warranty & Providing access opening of larger size about 1200 mm opening
643		Chemstore Group	Hydrosave	From 1.2 m to 3.5 m dia and 2.5 m to 20 m length	Fibreglass construction As per SEQ-SPS-1402-1					
644		Aquatec Fluid Systems	Aquatec Fibreglass Storage Vessels	From 1 m to 4 m dia and 1 m to 20 m length	Fibreglass construction As per SEQ-SPS-1402-1	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
645		Tank Solutions	Mullaly	1470mm to 3275mm in diameter 3.3m to 15m in length	Fibreglass construction As per SEQ-SPS-1402-1					
646		Polynex	Polynex	From 600mm to 3000mm in diameter	Double walled HDPE As per SEQ-SPS-1402-1	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use Accepted - Minimum 20 year warranty