

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>												
Category: SEWERAGE PIPES AND FITTINGS - NON PRESSURE												
4	PVC-U pipe and fittings - DWV system	230 4.1 - Plain Wall 4.2 - Elastomeric Seal 4.3 - Stiffness as per 230.2.(c) or as required by SP 4.4 - RRJ @ SBR & EPDM	Iplex	DWV PIPE	DN100 150 225 300 375	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	Use is subject to acceptance by SP	DN100 at SN10, DN150 and larger at SN8 and Fittings at SN8 minimum		
5			Vinidex	DWV SEWER								
6			Viadux	D-FLO								
7	PVC-U Pressure pipe Sewer using Standard DWV Junctions	211 4.1 - PN12 4.2 - Deep Sewers or Minimum Cover 4.3 - Standard Packaging & Delivery 4.4 - Series 1 4.5 - RRJ @ SBR & EPDM	Micron Pipelines	Micron Pipelines	DN100 - DN300	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		
8			Pipemakers	Pipemakers								
9			Plastec	Plastec	DN100, DN150 & DN225							
10	DI pipe	202S 4.1 - PN35 4.2 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.3 - Polyurethane lining 4.4 - Restrainted Joints on Zinc/Bitumen coated pipe 4.5 - Polyurethane coating 4.6 - SBR, EPDM or NBR 4.7 - PE sleeving is required on all DI pipes unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	VonRoll / Reece	Ducpur/ Ecopur	DN80 - 700 (ISO Sizes)	Min 900 micron Polyurethane external coating Min 1300 micron Polyurethane internal lining						
11												
12												
13	DI pipe	202S 4.1 - PN20 4.2 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.3 - Polyurethane lining 4.4 - Restrainted Joints on Zinc/Bitumen coated pipe 4.5 - Zinc/Bitumen coating or Polyurethane coating 4.6 - SBR, EPDM or NBR 4.7 - PE sleeving is required on all DI pipes unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	Beaver-Jindal Australia/NZ		DN225 to DN750		NOT ACCEPTED BY SP			PN20 NOT ACCEPTED BY SP, PN35 Use is subject to acceptance by SP		
14												
15												
16	Steel pipe	203 4.1 - By design and PN16 min 4.2 - SEQ Code nominal DN's 4.3 - Seal coat not required for sewage 4.4 - Extra protection by design 4.5 - Joints by design to SEQ Code Standards	Viadux	Tytonxtreme	DN100 - 750		NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		NOT ACCEPTED BY SP		
17			Crevet / Iplex	Ironite	DN100 - 750	CAC cement lining				Accepted in applications where DI pipe is specified e.g. building over sewer applications		
18			Saint-Gobain	Integral Zinalium	DN100 - 750		pH1 version accepted			Use is subject to acceptance by SP		
19	Polypropylene (PP) pipe	240 4.1 - Type B - ID Series 4.2 - SN10,000 4.3 - RRJ @ SBR & EPDM	Steel Mains	Sintapipe		Internal lining would be required, either Epoxy or Sintaline				Sintapipe accepted in applications where steel pipe is specified.		
20												
21												
22	PE pipe - NuSewers	207 4.1 - Minimum PN8 SDR21 PE100 4.2 - Gravity Sewer fully welded 4.3 - Pipes lengths for DN160 and larger with coils accepted for DN110 4.4 - External colour light grey Solid or Striped with Internal colour white or light colour, see POP203 4.5 - PE100 only	Vinidex	SewerPRO	DN150 - 900							
23												
24												
25												
26												
27												
28												
29	PE fittings - Moulded	208 4.1 - PN10 preferred 4.2 - Electrofusion or butt welding 4.3 - Couplings and Saddles 4.4 - Bolting Flanges not required. 4.5 - Elastomeric Seals not permitted And Electrofusion fitting Standards AS4129, EN1555, EN12201, EN13244-4	George Fischer / Iplex									
30												
31												
32												
33												
34												
35	PE fittings - Fabricated	218 4.1 - PN10 preferred 4.2 - Electrofusion or butt welding Including Sweep Bends, MH Connectors, Sediment Traps, Tee and Bends for drop pipes and Sweep Junctions.	Fusion Group/FusionPlast	Fusamatic	Up to DN630	Electrofusion fitting to be long type.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Flanged tees and flanged saddles are not accepted by SP.		
36												
37												
38	VC pipe	231 4.1 - DN100/150 Crushing Strength 34, DN225 and larger Class 160 4.2 - Sp-Soc and Sleeve Coupling 4.3 - All seal materials accepted	Vinidex			Electrofusion fitting to be long type.						
39												
40												
41												
42												
43												

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44	DI IO bends or X Drop fitting	201	4.1 - Sp-Soc ends to serve PVC-U DWV pipe 4.2 - Refer Standard drawings 4.3 - Standard RRJ for accept PVC-U DWV pipe 4.4 - SBR & EPDM 4.5 - Thermal-bonded polymeric coated and lined	Crevet						All DI fittings to be wrapped									Use is subject to acceptance by SP		NOT ACCEPTED BY SP				
45				Viadux																					
46	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									Not to be used for PE pipes where thermal expansion / contraction of pipework is likely to result in pull-out of the coupling						
47				DEKS	DEKS shear banded coupling	DN100 to DN225																Use is subject to acceptance by SP			
48				Rehau	Awaduct Flex Connect	DN100 to DN 630																			
49				VIP Polymers/ Jaybro Group	VIPSeal	DN100 to DN600																			
50	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					Long type. All DI fittings to be wrapped. DI must have thermal bonded polymeric coating															
51				Crevet	Gibault & Universal																				
52				AVK	Gibault & Universal																				
53				AVK Supa-Gib Couplings		Up to DN675																			
54				Viking Johnson	MaxiFit & QuickFit																				
55				Derwent																					
56				DEKS	DEKS FLEXI-GIB	DN80 to DN600																			
57				Daemco	Reinoversal	Up to DN 600																			
58	Clover Pipelines	Clover Connect VPC	DN80 to DN375																						
59	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	System 2000 for PE Synoflex PN16 Restraint for AC, DICL, SCL, PE					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 may not suit the same pipe DN 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 for their pipes. Synoflex and +GF+ 3000 Plus are not to be used on PVC and GRP pipes															
60				AVK	Supa Plus Restraint for PE	DN50-DN300																			
61				+GF+	Multi/joint 3000 Plus restraint type for AC, DI, SCL, PE																				
62				Viking Johnson	Aquaust and Aquagrip Restraint for PE																				
63				Nova Siria/Hygrade Water	Multigrip	DN350-DN1400																			
64				Daemco	Xcel Restrained Coupling and Flange Adaptor for PE	DN 63 to DN 315 for Coupling & DN63 to DN 315 for Flange Adaptor																			
65	Victaulic Piping Products	Victaulic Restrained Couplings for HDPE pipe																							
66	316 Stainless Steel Sewer Clamps	No WSA-PS, AS 4181		Derwent Industries	Sewer OB Junction	DN100 - DN450 with Offtake sizes DN100/ DN150/DN225				316 Stainless Steel Sewer OB Junction repair clamp for property connections on existing gravity sewer pipelines. The fixed off- take branch has a PVC-U access coupling									Use is subject to acceptance by SP and not to be used on PVC-O or PE pipes		SP USE ONLY				
67	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																					
68				Humes																					
69	Polycrete 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																			
70				Global Pipe	Al Watani																				
71	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															
72	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																			
73				Global Pipe	Fiberstrong	DN300 - DN4000																			
74				Superlit / Clover Pipelines	Superlit	DN300 - DN3000																			
75	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																			
76				Empire Infrastructure	BOSSPIPE	DN300 - DN2000																			
77				Superlit / Clover Pipelines	Superlit	DN400 - DN1400																			
78	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																			
79				Superlit / Clover Pipelines	Superlit	DN300 - DN3000																			

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80	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	
81				Reflux valve fabricated	DN100						
82			Vinidex	Flap valve	DN50 to DN100						
83			Hygrade Water	WaStop Non-return valves	DN75 to DN200						
84			Fluid Control	Red valve - Tideflex check valves	DN50 to DN2400						
85			HMA Flow & Industrial - Valveco	Proflex Rubber Check Valve	DN 25 to DN 2500						
86	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	Use is subject to acceptance by SP	Subject to meeting the corrosion resistance requirements in Column F
87			Challenger	Challenger							
88			AVFI	AVFI							
89			HMA Valveco	HMA Valveco							
90			(Note: This is the only vendor complying with 316 SS throughout)	AVK							
91	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	
92	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	
93			Challenger	Challenger							
94			AVFI	AVFI							
95			AVK	AVK							

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Category: SEWERAGE PIPES AND FITTINGS - PRESSURE										
97-101	209 4.1 - PN16 4.2 - Sewer Rising main 4.3 - Series 2 only 4.4 - Cream refer POP203 4.5 - SBR & EPDM	Iplex Vinidex Viadux Micron Pipelines Pipemakers	BLUERHINO Hydro TUF-FLO Micron Pipelines Pipemakers Enviromain	DN100 150 200 225 250 300 & 375 DN100 - DN300			Use is subject to acceptance by SP		Use is subject to acceptance by SP	NOT ACCEPTED BY SP
102-106	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 Vinidex Micron Pipelines Pipemakers	ApolloBLUE Supermain Micron Pipelines Alphamain TOM®	DN100 150 200 225 250 300 & 375 DN100 - DN375 DN100 to DN150 up to DN375		NOT ACCEPTED BY SP		Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP
107-119	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 Vinidex Clover Pipelines Vinidex Beaver-Jindal Australia/NZ Clover Pipelines Vinidex Crevet / Iplex Crevet / Iplex Vinidex Saint-Gobain Viadux Clover Pipelines	ZAP-GP Clover/Xinxing ZAP-HAC Irontite (XINAL400+ coating) Irontite (XINAL400+ coating) ZAP-HAC PAM/TYTON Integral Zinalium PAM/TYTON Integral Zinalium Clover/Xinxing	DN225 to DN750 DN250-750 (not 225) DN225 to DN750 DN100 - DN750 (not 225)	PN20 PN20, CAC lining for corrosive flows PN35 and Flange class PN35 and Flange Class, CAC or HAC lining for corrosive flows	NOT ACCEPTED BY SP Use 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	NOT ACCEPTED 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 ZAP and Beaver-Jindal products is subject to acceptance by SP	NOT ACCEPTED BY SP Restraint joint seals not suitable for: -Aboveground applications; -Combining joint restraint and thrust blocks; -Epoxy or fusion coated spigots; -Other manufacturers sockets or other pipe materials. Cement mortar lining of any type is not permitted at locations where there is a potential of the pipe lining in contact with air/gas continuously or intermittently. 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.	PN20 NOT ACCEPTED BY SP Use is subject to acceptance by SP
120	202S 4.1 - K9-PN35 4.2 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.3 - Polyurethane lining only 4.4 - Restraint Joints on Zinc/Bitumen coated pipe 4.5 - Only Polyurethane coating on aerial pipes 4.6 - SBR, EPDM or NBR 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	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.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
121-130	201 4.1 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.2 - Standard and PN16 fittings 4.3 - Restraint Joint Seals by approval 4.4 - SBR & EPDM	Viadux Crevet / Iplex Vinidex Derwent Gillies Himgiri Castings/Galvin Engineering / CivilPipes Dobbie Dico Mallet Clover Pipelines Daemco	Tyton Joint Crevet Superlink Galvin Dobbie Mallet Clover Daemco	Up to DN750 (not 225) Up to DN750 (not 225) Up to DN750 (not 225) DN100 & DN150 DN80 to DN300 DN100 to DN250 DN80 to DN750 DN80 to DN150 DN80 - DN375	Thermal bonded polymeric coating is the standard material in WSA PS 201 and WSA PS212. All DI fittings to be wrapped		Use is subject to acceptance by SP Blank ends not accepted, FI-Soc & FI-Sp Connectors accepted up to DN375	FI-Soc & FI-Sp Connectors accepted up to DN375	Restraint joint seals not suitable for: PN20 pipe; Aboveground applications; Combining joint restraint and thrust blocks; Epoxy or fusion coated spigots; Other manufacturers sockets or other pipe materials. Use of Restrainted Joint Rubber Rings (Tyton-Iok) subject to acceptance by SP. Caps / Blank Ends not accepted	FI-Soc & FI-Sp Connectors accepted up to DN375
131	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.)
132-136	313 4.1 - Type R or F by SP approval 4.2 - Pipe DN by SP approval 4.3 - Off-take DN by approval 4.4 - Min. PN16	Crevet Viadux Cascade Control Daemco AVK	Wang Rapid Clamps Norma Connect AVK Series 748	DN100 to DN300 DN100 to DN300 DN40 to DN350 DN80 to DN300 Up 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 Only repair clamps accepted. For Non-PE pipes only Type R accepted only	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 Type R accepted only	Type R accepted only
137	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

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138	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	Only accepted for use where welded joints are not practical	
139			Derwent	Uniclamp	DN125 and DN180						Use is subject to acceptance by SP
140	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	Flex-Seal	Up to DN600			Use is subject to acceptance by SP	Use is subject to acceptance by SP		NOT ACCEPTED BY SP
141			DEKS	DEKS shear banded coupling	DN100 to DN225					Use is subject to acceptance by SP	
142			Viadux	Gibault - Ezigib & Varigib							
143			Crevet	Gibault & Universal							
144			AVK	Gibault & Universal							
145				AVK Supa-Gib Couplings	Up to DN675			Use is subject to acceptance by SP			
146			Viking Johnson	MaxiFit, QuickFit		Long type.					
147	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			All DI fittings to be wrapped.					
148			DEKS	DEKS FLEXI-GIB	DN80 to DN600	DI must have thermal bonded polymeric coating.			Use is subject to acceptance by SP		
149			Daemco	Reinoversal	Up to DN 600						
150			Clover Pipelines	Clover Connect VPC	DN80 to DN375						
151			Hawle / Hygrade Water	System 2000 for PE Synoflex PN16 Restraint for AC, DI, SCL, PE							
152			AVK	Supa Plus Restraint for PE	DN50-DN300	All DI fittings to be wrapped.				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
153	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	+GF+	Multi/joint 3000 Plus restraint type for AC, DI, SCL, PE		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.					The use of gripper type fittings on AC, DI and SCL pipe is subject to acceptance by SP
154			Viking Johnson	Aquafast and Aquagrip Restraint for PE						Use is subject to acceptance by SP	
155			Nova Siria/Hygrade Water	Multigrip	DN350-DN1400		Use is subject to acceptance by SP		Use is subject to acceptance by SP		Use is subject to acceptance by SP
156			Daemco	Xcel Restrained Coupling and Flange Adaptor for PE	DN 63 to DN 315 for Coupling & DN63 to DN 315 for Flange Adaptor	Synoflex and +GF+ 3000 Plus are not to be used on PVC and GRP pipes		Use is subject to acceptance by SP		Only accepted for use where welded joints are not practical	Use of Daemco Xcel Restrained Couplings is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations
157			Victaulic Piping Products	Victaulic Restrained Couplings for HDPE pipe			Use is subject to acceptance by SP		Use is subject to acceptance by SP		
158	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	
159			Viadux			Thrust restraint type and non-thrust type are Flanged to AS4087 PN16.	Dismantling joints shall be restrained type only Use of uni-flange is subject to acceptance of SP				
160	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	Viking Johnson			SS316 bolts, nuts and washers.	NOT ACCEPTED BY SP				Uni-flange to be used within pit or aboveground locations only
161			HMA Group	Uni-Flange Adaptor	DN50-DN500	Larger sizes of UniFlange shall be assessed for available Fitting PN vs Pipeline Test Head.	Use is subject to acceptance by SP		Use is subject to acceptance by SP	Use is subject to acceptance by SP	
162			Hygrade Water	Pipemate	DN80-DN900		NOT ACCEPTED BY SP				
163			AVFI	AFD10 Series	DN80-DN1200	All DI fittings to be wrapped	Restrained type only	Restrained type only			
164			Iplex	POLIplex							
165			Vinidex	Sewertech							
166			David Moss Group	DAMOS Hi-Vis							
167			Viadux			For directional drilling installations, minimum SDR 9 (PN20 PE100) unless specified otherwise and install with tracer wire.				PE is preferred pipe material - PE shall be used unless specific site conditions dictate otherwise.	PE is preferred pipe material Pressure Sewer/ Rising main pipes shall be black with cream stripes Vacuum Sewer pipes shall be solid cream (co-extruded with the pipe)
168	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			DN40 50 63 90 125 180 250 315 355 450 560 630 800	Pipe wall thickness to be designed for installation forces.			Use is subject to acceptance by SP		NOT ACCEPTED BY SP
169			Poly Pipe	SewerFlex							
170			Enviropipes	Enviropressure		Butt welded joints are mandatrofy for HDD construction where continuous pipes on coil are not available					
171			Cromford	Identipipe							
172			ACP	ACP				Use is subject to acceptance by SP		Use is subject to acceptance by SP	
173			ASA								
174	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)
175	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	Agro	Agroline	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	

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	
176	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	George Fischer			Electrofusion fitting to be long type. Stub flange may only be used for DN450 and larger sizes.		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	
177		Friatec / Vinidex	Frialen	DN63XDN32 to DN350XDN90							
178		Plasson									
179		Agru	AGRU	Up to DN630							
180		Fusion Group / FusionPlast	Fusamatic	Up to DN630							
181		NUPIGECO	Elofit	DN20 to DN710							
182		Hydroflow / Plastitalia S.p.A	PLAST	Up to DN630							
183	Simona / Plasson	Simona	Up to DN500	Use is subject to acceptance by SP				Seamless sweep bends not accepted	Seamless sweep bends not accepted		
184	Mako	Mako	Up to DN630					Only butt welded spigot fittings accepted	Only butt welded spigot fittings accepted		
185	PE fittings- Fabricated	216 and AS/NZS4129 4.1 - PN16 minimum 4.2 - Electrofusion or butt welding Including reducers, stub flanges, end caps, reducing tees and sweep bends	Adroit	Adroit	Butt Welded Fittings Stub flange may only be used for DN450 and larger sizes.		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
186	Full face PE flanges	208 moulded 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	Use is subject to acceptance by SP	
187		Plasson		DN80/DN100	Slotted flanges & backing rings suit both DN80 and DN100 to WSAA 98/50						
188		Iplex		Up to DN355	Full bore connections						
189		Friatec / Vinidex	Frialen	Up to DN180	Metal insert in the flange, backing rings not required						
190		Fusion Group / FusionPlast	Fusamatic	DN90 to DN 450							
191	216 and AS/NZS4129 fabricated 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			
192	Steel pipe	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 - 2159	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	
193	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	
194	Resilient seated gate valves, thermal bonded polymeric coating	260 4.1 - PN16 4.2 - FI-FI, Soc-Soc, Sp-Sp, FI-Soc, FI-Sp, PE tailed and gripper socket 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 36/80 Series 01/71 Series 55	Up to DN400 Up to DN400 Up to DN300 Up to DN300 DN450 to 600	Some valves may not need by-pass (check with SEQ SPs). All DI fittings to be wrapped All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted	DN600 and larger valves shall be DeZurik Eccentric Plug Valves	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP	Use of AVK SupaPlus restrained couplings is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.
195			Hawle	E2							
196			Viadux	Series 500 Auslite II Auslite III	DN200 - DN300 Up to DN 400 DN80 - DN600						
197			Karon / Challenger	Karon (FL-FL light weight design) Karon (FL-FL integral bypass valves)	DN80 - DN300 DN450 - DN600						
198			AVFI								
199			Betta	BETTA	DN80 - DN600						
200			AAP Industries	Maxiflo/appFLO	DN80 to DN300						
201			Derwent Industries	Derwent	DN80 - DN600						
202	DAEMCO		DN80 to DN300 for Soc-Sp DN80 to DN375 for FL								
203	Valve extension spindles	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 for pit installation	Viadux		AS2638 Compliant	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	
204			NIBF / Iplex								
205			Forge Bros / Vinidex								
206			Challenger								
207			Daemco								
208	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	

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
1 209	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	
210	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	Use is subject to acceptance by SP Coupling - Grade 316 Stainless Steel (min.)
211 212 213	FW-GRP (filament wound) pipe and Fittings - Sewer Pipe 205S 4.1 - As per product 4.2 - PN16 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 Global Pipe Superlit / Clover Pipelines	Flowtite Fiberstrong Superlit	DN300 - DN3000 DN300 - DN4000 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	Use is subject to acceptance by SP Coupling - Grade 316 Stainless Steel (min.)
214 215 216 217	Flowmeter - Network Meter No WSAA PS 4.1 - Flange to AS4087 Figure 5 4.2 - PN16	ABB Siemens E & H Emerson	ABB Siemens E & H Emerson				Use is subject to acceptance by SP Use is subject to acceptance by SP E & H 53W Use is subject to acceptance by SP		NOT ACCEPTED BY SP NOT ACCEPTED BY SP E & H Promag W400 NOT ACCEPTED BY SP	ABB Water master 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
Category: SEWERAGE MISCELLANEOUS ITEMS										
219	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 requires QUU cast into the cover 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
220		EJ								
221		Webforge								
222		Tellam								
223		Durham								
224		Hygrade								
225	292 4.1-DN<=450 Round 4.2-DN430 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	
226		Smartstream	Smartstream Top Hat- P8PEC		PE - Class B					
227		SYI Foundry/Aymroo	Aymroo (MSAYLIDCLB)		DI - Class B					
228		Webforge	Webforge (DCC4D32)		DI - Class D					
229	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
230		ACO SAKU			Composite - Class B					Use is subject to acceptance by SP
231		Prime Composites			Composite - Class B and D					Use is subject to acceptance by SP
232		EJ	EJ SERVO		Composite - Class B and D					Use is subject to acceptance by SP
233	Emergency Storage maintenance hole cover	Treloar	MC1000-Manway Cover	DN900	Class C Fabricated S/Steel grade 316 ring Nitrile gasket seal				Use is subject to acceptance by SP	
234	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
235		Aymroo	Aymroo							
236		C & C Plastics / Havestock	Posistep							
237		Industrial Steps & Ladders	Sure-Step							
238	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 <i>Fixed Platforms, Walkways, Stairways and Ladders - Design and Installation</i>	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		NOT ACCEPTED BY SP
239		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.					
240		Galvanised Steel			Refer to Standard Drawings					
241		Stainless Steel or Aluminium								
242	Maintenance Shaft PVC	Aymroo	Aymroo	DN300 PVC-U Riser Shaft	Configurations of "Central Axis" maintenance shaft (CAMS) are not accepted	Refer to clause 7.7.2 of the SEQ Sewerage Code	Refer to clause 7.7.2 of the SEQ Sewerage Code		NOT ACCEPTED BY SP	DN225 risers not accepted. Min DN300 risers are accepted.

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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	Maintenance Shafts PE	Smartstream	Poo-Pit		RIGSS DN300 PVC riser shaft. Nusewer fully welded with DN315 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 7.7.2 of the SEQ Sewerage Code	Approved for DN150 to DN225 RIGSS only. Refer to clause 7.7.2 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.
243	Maintenance Shafts Polypropylene	Iplex	EZlpit PA 09/01	DN425	Refer Standard Drawings			Refer to clause 7.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	NOT ACCEPTED FOR NUSEWER
244	Maintenance Shafts Polypropylene	SMS			SMS PA 09/08 parts 0 to 5 Code: MS1 Code: MS2 Code: MS5	Refer Standard Drawings		Refer to clause 7.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	NOT ACCEPTED FOR NUSEWER
245	Maintenance Shafts Polypropylene	REHAU			OD400-GD (Type H12) OD400-RML (Type H13)			Refer to clause 7.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	NOT ACCEPTED FOR NUSEWER
246	Maintenance Chambers Polypropylene	Iplex	Ezlpit PA 09/01	DN600	Refer Standard Drawings			Refer to clause 7.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	
247	Maintenance Chambers Polypropylene	REHAU		DN600			Use is subject to acceptance by SP	Refer to clause 7.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	
248	Maintenance Chambers Polyethylene (PE)/PVC	Smartstream	Mini pit	DN600				Use is Subject to acceptance by SP	Use is Subject to acceptance by SP	
249	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
250	Pre-cast Maintenance Holes	Rocla								
251	Pre-cast Maintenance Holes									

	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												
252	Pre-cast Concrete Converter Slab for Cast In-situ MHs	No WSA-PS Refer Standard Drawings	Everhard			Refer Standard Drawings. Calcareous aggregates to be used	Use is Subject to acceptance by SP		Use is Subject to acceptance by SP		Use is Subject to acceptance by SP	
253			Tellam									
254			Australian Quality Precast									
255			Aquarius Precast									
256			First Contact Civil Supplies									
257	Plastic Maintenance Holes	No WSA-PS Refer details of Type K1 on SEQ-SEW-1314-2 Minimum DN1000 chamber and DN600 neck	Smartstream	Smart Pit	DN150 to DN300 sewers	Refer Standard drawings Max depth FSL to Invert of Pipe is 3.0 meters	Currently approved to be used as maintenance chamber or maintenance shaft only	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
258	Vent poles	325 Project Specific outcome Product Appraisal Report PA 0906 for RPC	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	
259			Ingal EPS						Accepted Height 12.0 m	Minimum accepted Height 6.0 m		
260	Valve box and cover C.I. & D.I.	No WSA-PS Refer details on SEQ-WAT-1305-1	Viadux			Refer Water Code Standard Drawings for approved Valve Box and Cover						
261			NIBF									
262			Gatic / Milne									
263			Tellam									
264			Hygrade Water	Hygrade Water								
265	Loose PE sleeving to DI pipe	320 Cream Colour to POP203	Viadux			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			
266			Crevet	BLUEBOSS Cream								
267	Embedment material - crushed rock	351 4.1 - Single sized 4.2 - Nominal 5 or 7 mm										
268	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	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
269	Concrete-Normal Class	357 4.1 - As follows N20 Thrust Blocks N25 for reinforced embedment 4.2 - Slump as required for placement										
270	Concrete-Special Class (for Maintenance hole and for concrete in aggressive environment)	358 4.1 - SCC40 with Fly Ash/Type SR Portland Cement ratio of 0.25 to 0.30. 4.2 - Slump as required for placement 4.3 - Calcareous aggregate at 20 mm					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	Calcareous aggregate size to be 10mm minimum. Admixtures shall be non-chloride type	
271	Gas release valves	275 Refer Appendix B of AS4883 Size of Valve - DN50 BSP, DN50 to DN200 Flanged. Class of valve - PN16 Type of Port - Full and Reduced port Type of Valve - As per design needs Hydraulic Data - By design to AS4883 Appendix B	ARI Flow control			PN16, Anti Slam as required, Thermal bonded polymeric coating or 316 Stainless steel	DN225 and larger mains to only use Vinloc-Smartvalve		NOT ACCEPTED BY SP		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
272			Bermad									
273			Vent-O-Mat									
274			Odour Technologies	Vinloc-Smartvalve	DN50-DN200							
275			AVFI	ARV-3-N								
276			ISCO	Vent Master PX								
277	Non-return valves - Swing check with counterweight lever arm	264 Refer Appendix B of AS4794 a) Class - PN16 min - Size by Design b) Medium - Sewage c) Installation - Horizontal d) Spindle - Extended e) Lever and Counterweight minimum with switches and indicators by Design j) 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	NOT ACCEPTED BY SP
278			Dobbie Dico	Dobbie Dico	DN80-DN900							
279			AVK	AVK Swing Check Valve 41/25	DN50							
280			AVK	AVK Swing Check Valve 41/8X	DN80-DN300							
281			Challenger Valves	Challenger - RSSC	DN80-DN375							
282			AVFI Pty Ltd	AVFI - RSFC	DN50-DN300							
283												
284	Non-return valves - Free acting (without counterweight) Swing Check	264 Refer Appendix B of AS4794 a) Class - PN16 min - Size by Design b) Medium - Sewage c) Installation - Horizontal d) Spindle - Extended j) 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
285			Dobbie Dico	Dobbie Dico	DN80-DN900							
286			AVK	AVK Swing Check Valve 41/25	DN50							
287			AVK	AVK Swing Check Valve 41/8X	DN80-DN300							
288			Challenger Valves	Challenger - RSSC	DN80-DN375							
289			AVFI Pty Ltd	AVFI - RSFC	DN50-DN300							
289	PVC-U Fabricated Fittings Fibreglass reinforced PVC Type 'D' junctions & fittings	230 4.1 - Plain Wall only 4.2 - Solvent Cement joints for Fabricated assemblies with Elastomeric Seal on Fitting Socket Ends 4.3 - Pipe DN100 @ SN10 min and Pipe DN150 and larger SN8 min. Fittings SN6 min 4.4 - RRJ @ SBR & EPDM	Vinidex			Deep Sewer Junction & Reinforced Fittings such as Oblique Junctions and House Connection Bends and Inspection Tees	DN100-300			NOT ACCEPTED BY SP	DN100 at SN10, DN150 and larger at SN8 and Fittings at SN8 minimum	
290			Iplex									
291			Holman Industries									
292			M.E. Christensen									
293	PVC-U SN8 long radius bends	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	Vinidex			Long radius 3000 mm bends	DN150 as bent pipe & DN225 as bent or fabricated pipe			Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP
294			Iplex									
295			Tri Underground									
296			Holman Industries									
297			M.E. Christensen									
298	PVC-U fully moulded SN8 and SN10 junctions and bends	230 4.1-Plain wall 4.2-RRJ 4.3-Min SN10 for DN100 and SN8 for DN150 and larger 4.4-NBR or SBR or EPDM 4.5-One piece fully moulded 4.6-Fibre reinforcement is not required	Holman Industries	Holman/Fabfit	DN100 and DN150	Currently approved are: SN8 100x150 Junction SN10 M/F 100x43 Bend SN10 F/F 100x43 Bend These one piece fully moulded fittings are to be used for Type A and B sewer property connections and are approved alternatives to the currently approved multi-piece fabricated fibre reinforced fittings		SN rating (SN8 or SN10) shall be written on the fittings	Use is subject to acceptance by SP	Use is subject to acceptance by SP	SN rating (SN8 or SN10) shall be imprinted on the surface of fittings	

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										
299	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							
300		Tapex								
301		Rain Harvesting	421			Use is subject to acceptance by SP				
302	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 45mil 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				
303	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		
304	Hydrophilic Seal		Hydrotite							
305			KuniSeal C-31 DS			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	
306	Casing Spacers	324 4.1 - Carrier pipes OD from 100mm to 1668mm 4.2 - Min space between carrier pipes and encasing pipes 50mm	HDX Series	Runner height of 38, 65, 90 and 125 mm	For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes					
307			HD Series	Runner height of 30, 50, 75 and 100mm 110mm OD to 355mm OD (un-grouted annulus). May be used on carrier pipe diameters greater than 355mm OD where the annulus will be grouted	For SCL, DI, PE, PVC and GRP carrier 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	
308	Camlock				S/Steel 316					Maximum DN100
309	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
310			Agrusafe							
311			Bluey Technologies							
312			AKS							
313	Protective internal coating - other coating types	WSA 201 Manual for Selection and Application of Protective Coatings. SEQ SPs requirements: • Two component epoxy, solvent free, 100% solids • Suitable for provision of single coats >=0.6mm thick • Excellent stated resistance to Sulphuric Acid via Test results • Minimum 15 minute Pot Life at 20 degrees C • Light coloured • Applied to manufacturers requirements • Combined 10 year warranty from Applicator and Manufacturer	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 Only cementitious or epoxy mortars to be used on existing concrete structures. (Mortar coating typically 25mm thick)	Use is subject to acceptance by SP (minimum 2.0 mm thickness)
314				Epigen 1311 Ultra						
315			Sika Australia	Sikagard - 63N						
316			Hychem Epoxy Systems	Hychem TL5						
317			International Paints	Ceilcoat 2000 Flakeline						
318			ITWPF	Epirez 733UHB						
319			Fernco / JDP Applications	Ultracoat Epoxy Coating						
320			Interflow	Quadex Aluminaliner Plus						
321			BASF	MasterSeal 7000CR						
322			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					
323	Parchem	Sewpercoat		Use is subject to acceptance by SP		Use is subject to acceptance by SP		Use is subject to acceptance by SP		
324	Protective external coating	WSA 201 Manual for Selection and Application of Protective Coatings. SEQ SPs requirements: Two Component solvent free polyurethane • Suitable for provision of single coats >=0.6mm thick • Excellent stated resistance to Sulphuric Acid via Test results • Minimum 15 minute Pot Life at 20 degrees C • Light coloured • Applied to manufacturers requirements • 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 min 0.3 mm thick dry film via single coat. Sulphuric Acid Resistance to suit site conditions. SP Approved Equivalentents 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)

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		
Category: WATER SUPPLY PIPES - PRESSURE												
325	PVC-M pipe	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			Only accepted where PE is unsuitable	NOT ACCEPTED BY SP		
326			Vinidex	Hydro Blue								
327			Viadux	Tuf-Flo								
328			Micron Pipelines	Micron Pipelines	DN100 to DN300							
329			Pipemakers	Pipemakers Enviromain								
330	PVC-O pipe	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	NOT ACCEPTED BY SP	SP USE ONLY	Use is subject to acceptance by SP	NOT ACCEPTED BY SP		
331			Vinidex	Supermain								
332			Micron Pipelines	Micron Pipelines	DN100 - DN375							
333			Pipemakers	Alphamain	DN100 to DN150							
334				TOM®	Up to DN 375							
335	DICL Pipe	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	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	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 -Other manufacturers sockets or other pipe materials. Use of Clover Pipelines and Beaver-Jindal is subject to acceptance by SP		
336			Clover Pipelines	Clover/Xinxing (ZnAIRE400)								
337			Beaver-Jindal Australia/NZ		DN225 to DN750	Up to DN 750 (not 225)	PN 35 and Flange Class	Seal coat on all pipe sizes Coating shall be minimum 400g/m2 Zn-Al alloy +100µm synthetic resin, or minimum 900µm polyurethane or approved equivalent.	Use 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	Use is subject to acceptance by SP
338			Beaver-Jindal Australia/NZ									
339			Crevet / Iplex	Ironite (XINAL400+ coating)								
340			Vinidex	ZAP-GP								
341			Saint-Gobain	PAM/TYTON Hydroclass Zinalium		DN100 - DN750 (not 225)						
342			Viadux	PAM/TYTON Hydroclass Zinalium								
343	Clover Pipelines	Clover/Xinxing (ZnAIRE400)										
344												
345	DI Pipe - ISO	202 4.1 - K9-PN35 4.2 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.3 -Restrained Joints on Zinc/Bitumen coated pipe 4.4 -Polyurethane without seal coating 4.5 - Only Polyurethane coating on aerial pipes 4.6 - SBR, EPDM or NBR 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	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.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
346	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		
347	SCL pipe	203 4.1 - MPa 1.6 minimum 4.2 - DN by Design subject to SP approval 4.3 - Seal Coat required for DN450 and larger 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 option 4.9 - SBR & EPDM 4.10 - Sintakote minimum	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		
348	PE pipe	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. Butt welded joints are mandatroy for HDD construction where continuous pipes on coil are not available	1 - Used as Water Service pipe at DN25 and larger 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.		
349			Vinidex									
350			David Moss Group									
351			Cromford	Identi-pipe								
352			Poly Pipe									
353			Viadux	Advantage/TYCO10								
354			Enviropipes	Enviropressure								
355			ASA	Blueline	DN25 to DN125							
356	ACP	ACP	DN25 to DN315									
357	PE pipe - High Stress Crack Resistant (HSCR) Polyethylene Pipe	207, POP016 4.1 - PN16 minimum 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 - HSCR PE100 only	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 wires. 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 larger 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
358	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
359	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
360	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
361			Global Pipe	Fiberstrong	DN300 - DN4000						
362			Superlit / Clover Pipelines	Superlit	DN300 - DN3000						
363	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

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							
Category: WATER SUPPLY FITTINGS - PRESSURE																	
364																	
365	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-Iok) subject to acceptance by SP							
366		4.1 - Soc-Soc, Soc-FI & FI-FI	Dobbie Dico	Dobbie	DN100 to DN150												
367		4.2 - PN16 fittings	Himigiri Castings/Galvin Engineering / CivilPipes	Galvin	DN100 & DN150												
368		4.3 - By approval	Clover Pipelines	Clover	DN100 to DN150												
369	DI bends, tapers, tees/branches, connectors, risers & caps/blank ends	201 4.1 - Soc-Soc, Sp-Sp, FI-FI, Soc-Sp, Soc-FI & Sp-FI 4.2 - Standard and PN16 fittings 4.3 - Restraint Joint Seals by SP approval 4.4 - SBR & EPDM	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	Blank ends not accepted, FI-Soc & FI-Sp Connectors accepted up to DN375	Restraint joint seals not suitable for: PN20 pipe; Aboveground applications; Combining joint restraint and thrust blocks; Epoxy or fusion coated spigots; Other manufacturers sockets or other pipe materials. Use of Restrained Joint Rubber Rings (Tyton-Iok) subject to acceptance by SP Caps / Blank Ends not accepted FI-Soc & FI-Sp Connectors accepted up to DN375							
370			Crevet / Iplex	Crevet							Up to DN750						
371			Vinindex	Superlink													
372			Derwent														
373			Gillies								DN100 & DN150						
374			Himigiri Castings/Galvin Engineering / CivilPipes	Galvin							DN80 to DN300						
375			Dobbie Dico	Dobbie							DN100 to DN250						
376			Mallet	Mallet							DN80 to DN750						
377			Clover Pipelines								DN100 to DN150						
378			Daemco	Daemco							DN80 - DN375						
379	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 & Vari-Gib	Long type only. 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	Use is subject to acceptance by SP							
380			Crevet	Gibault & Universal Multigib							Up to DN750						
381			AVK	Gibault & Universal							Up to DN675						
382			Viking Johnson	AVK Supa-Gib Couplings							Up to DN675						
383			Derwent	MaxiFit, QuickFit													
384			DEKS	DEKS FLEXI-GIB							DN80 to DN750						
385			Daemco	Reinoversal							Up to DN 600						
386			Clover Pipelines	Connect VPC							DN80 to DN375						
387																	
388	DI mechanical couplings - End Thrust Restraint (Gripper Type)	271 4.1 - PN16 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	Hawle / Hygrade Water	Synoflex PN16 Restraint coupling for AC, DI, SCL	DN50-DN300	Synoflex and +GF+ 3000 Plus are manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DN may not suit the same pipe DN 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 for their pipes.	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							
389			+GF+	Multi/ joint 3000 Plus restraint type for AC, DI, SCL													
390			Nova Siria/Hygrade Water	Multi/ joint 3000 Plus restraint type for AC, DI, SCL	DN350-DN1400	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	Use is subject to acceptance by SP							
391	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								
392	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							
393	Pretapped connectors	201 4.1 - Soc-Soc only 4.2 - Standard and PN16 fittings 4.3 - Restraint Joint Seals by approval 4.4 - SBR & EPDM	Clover Pipelines	Clover	DN100 to DN150	Thermal bonded polymeric coating DN100 to DN150 with 4 x 20BSP tappings at 2 per side and DN200 to DN300 1 x 50BSP tapping	Use is subject to acceptance by SP	SP USE ONLY	Use is subject to acceptance by SP	Use is subject to acceptance by SP							
394			Viadux	Readytap	DN100 to 300												
395			Crevet / Iplex	Pretapped	DN100 & DN150												
396			Vinindex	Superlink	DN100 & DN150												
397			Himigiri Castings/Galvin Engineering / CivilPipes	Galvin	DN100 & DN150												
398			Daemco	Daemco	Up to DN300												
399			Derwent	Derwent	DN100 - DN300												
400			246 4.1 - Blue or Black for DW and Purple for NDW	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	Use is subject to acceptance by SP	
401			316 SS repair clamps, flanged off-take clamps & BSP tapping clamps	313 4.1 - Type R or F by SP approval 4.2 - Pipe DN by SP approval 4.3 - Off-take DN by approval 4.4 - Min. PN16	Crevet						Wang	DN100 to DN300	Flanged off-take clamps approved are 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
402					Viadux						Wang	DN100 to DN300					
403	Cascade Control	Rapid Clamps			DN40 to DN350												
404	Daemco	Norma Connect			DN80 to DN300												
405	AVK	AVK Series 748			Up to DN300												
406	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							
407	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	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	Only accepted for use where welded joints are not practicable							
408			Derwent	Uniclamp	DN125 and DN180						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	
1	<p>260 4.1 - PN16 4.2 - FI-FI, Soc-Soc, Sp-Sp, FI-Soc, FI-Sp, PE tailed and griper socket 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 for 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</p>	AVK	Series 57 (light type only for DN100 & 150) Series 570 Series 36/80 Series 01/71 Series 55	Up to DN400 Up to DN400 Up to DN300 Up to DN300 DN450 to 600	Anchor legs approved All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted						Use of AVK SupaPlus restrained couplings is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations
409		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 All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted	DN500 and DN600 with DN100 By-pass DN750 with DN150 By-pass			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.
410		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	Viadux Anchor Legs approved				Use of Auslite II is subject to acceptance by SP		
411		Karon / Challenger	Karon Karon (FL-FL light weight design) Karon (FL-FL integral bypass valves)	DN80 - DN600 DN80 - DN300 DN450 - DN600	All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted	Use of Karon / Challenger (FL-FL light weight design) is subject to acceptance by SP	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP	
412		Resilient Seated Gate Valves, thermal bonded polymeric coating	AVFI							Use is subject to acceptance by SP	NOT ACCEPTED BY SP
413			Betta	BETTA	DN80 - DN600	AAP Industries WSAA Appraisal 11/26 Issue 2 All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted				Gripper type accepted up to DN150	Use of Betta Valves with griper/restraint joint is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations
414			AAP Industries	Maxiflo/appFLO	DN80 to DN300	Valves that are not able to be restrained are not accepted	DN500 and DN600 with DN100 By-pass DN750 with DN150 By-pass			Use is subject to acceptance by SP	
415			Derwent Industries	Derwent	DN80 - DN600	WSAA Appraisal 1511 All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted					
416			DAEMCO		DN80 to DN300 for Soc-SP DN80 to DN375 for FL	WSAA Appraisal 1517 Issue 3 All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted					Gripper type accepted for DN100 and DN150
417			Dahsian	S- Gate Valve	DN100 - DN250	Valve for Underpressure Line Stopping, suitable for rigid pipes with DIOD compatibility, i.e. Ductile Iron, Cast Iron and Asbestos Cement	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	SP USE ONLY
418			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	Not Accepted by SP
419		Butterfly Valves	Pentair / Viadux	Keystone		Body shall be 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 shall be stainless steel Grade 316. Shaft shall be stainless steel Grade 316, 410, 420, 430 or 431. Seat shall be EPDM, NBR or SBR. All fasteners shall be stainless steel Grade 316. Operation Type: Lever or Gearbox. Gearbox ratio as per manufacturer's requirement and coating – high build two-pack Epoxy 275 µm (min.)	DN100 to DN300 Property Service valves are wafer type for in-ground installations and are anti-clockwise closing operated. DN100 to DN300 Property Service valves are lugged type for above ground installations and are anti-clockwise closing operated. DN375 and larger valves are all double flanged type and are anti-clockwise closing gearbox operated Challenger valves are accepted for DN100 to DN300 only	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
420			Ebro	Ebro							
421			AVFI	AVFI							
422	Valveco		Valveco	DN50-600 for wafer/ lugged DN100-1000 double flanged							
423	Iplex		AVK								
424	Challenger		Challenger								
425	Hydroflow Distributors		Watts								Use is subject to acceptance by SP
426	Hydrants	AVK	Series 30/00 non-swab and 30/10 for swab		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	
427		Viadux	Sureflow								
428		Civil Pipe Supplies	BETTA normal & Swab								
429		AAP Industries	MAXIFLO/appFLO								
430		Derwent Industries	Derwent standard and Swab								
431		Dobbie Dico									
432	Ant Barrier devices for Hydrants	Hydrant Protection	Hydraguard	To suit DN100 hydrant		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		
433	Hydrant and Air Valve Isolating Valves	AVK			Thermal bonded polymeric coating Min. PN16		DN80 Flange to AS4087 Fig B5	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	
434		Viadux		DN80 - DN100			Swabbing type at main ends refer SEQ-WAT-1302-1	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
435		Crevet									
436											
437	Valve box & cover C.I. or D.I.	Viadux				Water Service ferrule Boxes for footpath are Viadux MFNSW-PTHBX or approved equivalent and for roadway are Viadux MVGQ or approved equivalent as per Item 41 of 11-133 and as shown on 11-134 of CoGC metering standard drawings.					
438		NIBF / Iplex			Bitumen coated to AS 3750.4						
439		Tellam					Lids colour e.g. white are preferred to be painted in factory		Use is subject to acceptance by SP	Only Class D accepted	
440		Gatic / Iplex									
441	Hygrade Water	Hygrade Water									
442	Hydrant box & cover C.I. or D.I.	Viadux									
443		NIBF / Iplex									
444		Tellam				Bitumen coated to AS 3750.4	Lids colour yellow are preferred to be painted in factory				
445		Gatic/Iplex									
446	Hygrade Water	Hygrade Water						Use is subject to acceptance by SP	Only Class D 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
447	Valve & hydrant boxes (recycled plastics) & DI Covers No WSA-PS Refer details on SEQ-WAT-1305-1	Viadux			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
448		Crevet								
449		Vinindex								
450		Civilpipes	Daemco							
451		Viadux	Daemco							
452	Daemco	Daemco			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	
453	Valve extension spindles 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 for pit installation	Viadux			AS2638 Compliant					
454		NIBF / Iplex								
455		Forge Bros / Vinindex								
456		Challenger								
457	Daemco									
458	Flanges MS 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	Steel Mains			Class 16. Thermal bonded polymeric coating					
459		NIBF / Iplex								
460	Flange gaskets and 'O' rings 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								
461	Bolts No WSA-PS Refer details on SEQ-WAT-1313-1				316 Stainless steel bolts					
462	PE mechanical compression fittings for reduced size water mains 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			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		
463		Philmac / Philmac & Vinindex								
464		Plasson								
465		Talbot								
466		Alprene								
467		Iplex								
468		Viadux								
469	Hydroflow / SAB S.p.A	SAB Black Nut Blue Seal								
470	PE Fittings - Moulded (for mains and large service pipes) 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	Electrofusion fittings to be long type. Stub flanges only to be used for sizes DN450 and larger	Accepted where PE pipes are approved to be used		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
471		Georg Fischer	ELGEF Plus Draw - Lock							
472		Friatec / Vinindex	Frialen	Up to DN630						
473		Agro	Agro	Coupler up to DN630						
474		Fusion Group / FusionPlast	Fusamatic	Up to DN630						
475		NUPIGECO	Elofit	DN20 to DN710						
476		Hydroflow / Plastitalia S.p.A	PLAST	Up to DN630						
477		Mako	Mako	Up to DN630						
478	Simona / Plasson	Simona	Up to DN500							
479	PE fittings - Moulded - High Stress Crack Resistant (HSCR) Polyethylene (for mains and large service pipes) 208 DN63 and larger 2.(a) AS/NZS4129 or EN 1555 or EN 12201 or EN 13244 is acceptable. HSCR compounds shall comply with AS/NZS 4131 and POP016. 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	Agro	Agroline	Up to DN630	Comply with AS4129, PN16, Electrofusion fittings to be long type. Stub flanges only to be used sizes Dn450 and larger.	Accepted where PE pipes are approved to be used 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	
480	PE fittings - Fabricated 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 Stub flange may only to be used for DN450 and larger sizes.	Accepted where PE pipes are approved to be used	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
481	Full face PE flanges (for reticulation sizes)	Simona / Plasson	Simona			Accepted where PE pipes are approved to be used	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
482		Plasson		DN80 / DN100	DN90 riser with slotted flanges suit both DN80 & DN100 flanged hydrants to WSAA 98/50				Use of stub flanges is subject to acceptance by SP	
483		Iplex		Up to DN355	Full face full bore connections				Use is subject to acceptance by SP	
484		Friatec / Vinidex	Frialen	Up to DN180	Metal insert in the flange, backing rings not required				Use is subject to acceptance by SP	
485		Fusion Group / FusionPlast	Fusamatic	DN90 to DN 450					Use is subject to acceptance by SP	
486		216 and AS/NZS4129 4.1 - PN16 minimum 4.2 - Butt Weld pipe joint with Full Face Flange Adaptor with SS316 backing ring and AS 4087 "Figure" compatibility for mating flange	Rodney / Vinidex	Maxi Stub	Up to DN355	Full face full bore connections	Accepted where PE pipes are approved to be used	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use of stub flanges is subject to acceptance by SP
487	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	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 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.
488		+GF+	Multi/Joint 3000	Up to DN355						Use of AVK SupaPlus restrained coupling is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations
489		AVK	Supa Plus	Up to DN315						Use is subject to acceptance by SP
490		Viking Johnson / Philmac	AquaFast AquaGrip	Up to DN630						Use of Daemco Xcel Restrained Couplings is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations
491		Daemco	Xcel Restrained Coupling and Flange Adaptor for PE	DN63 to DN315 for Coupling and DN63 to DN315 for Flange Adaptor						Only accepted where welded joints are not Practical
492		Victaulic Piping Products	Victaulic Restrained Couplings for HDPE Pipe			Use is subject to acceptance by SP	Use is subject to acceptance by SP			
493	PE scour Tees	216 4.1 - PN16 minimum 4.2 - Electrofusion/Butt Weld pipe joint with Full Face Flange Adaptor with SS316 backing ring and AS 4087 "Figure" compatibility for mating flange on outlet	Vinidex / Rodney			Comply with AS4129	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	
494			Kingston Bridge / Iplex							
495	Air valves	ARI Flow control				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
496		Bermad		DN50-DN200						
497		Vent-O-Mat								
498		AVFI	DAV-MH							
499		ISCO	Vent Master PX							
500	Non-return valves - Swing check with counterweight lever arm	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 j) Flanged to AS 4087 Figure B5	HMA Valveco	Valmatic Swing-flex	DN50 - DN600	Thermal bonded polymeric coating	Accepted to be used for large meter assemblies where a non-return valve is required as per council's meter standard drawings.	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	NOT ACCEPTED BY SP
501			Dobbie Dico	Dobbie Dico	DN80-DN900					
502			AVK	AVK Swing Check Valve 41/25	DN50					
503			AVK	AVK Swing Check Valve 41/8X	DN80-DN300					
504			Challenger Valves	Challenger - RSSC	DN80-DN375					
505		AVFI Pty Ltd	AVFI - RSFC	DN50-DN300						
506	Non-return valves - free acting (without counterweight) Swing Check	264 Refer Appendix B of AS4794 a) Class - PN16 min - Size by Design b) Medium - Water c) Installation - Horizontal d) Spindle - Extended j) Flanged to AS 4087 Figure B5	HMA Valveco	Valmatic Swing-flex	DN50 - DN600	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
507			Dobbie Dico	Dobbie Dico	DN80-DN900					
508			AVK	AVK Swing Check Valve 41/25	DN50					
509			AVK	AVK Swing Check Valve 41/8X	DN80-DN300					
510			Challenger Valves	Challenger - RSSC	DN80-DN375					
511		AVFI Pty Ltd	AVFI - RSFC	DN50-DN300						
512	Pressure reducing valves	268 See Appendix B of AS5081:2008	Bermad Water Technologies	Bermad	DN40 - DN900	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
513			Singer / HMA Valveco	Singer						
514			Plasson Australia Pty Ltd	Plasson C-Valve						
515			Dorot Australia Pty Ltd	Dorot 300 Series						
516			Cla-Val Pacific / Challenger	Cla-Val	DN25-DN1200					
517	Pressure sustaining valves and altitude valves	268 See Appendix B of AS5081:2008	Bermad Water Technologies	Bermad	DN 40 - DN900	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
518			Singer / HMA Valveco	Singer						
519			Dorot Australia Pty Ltd	Dorot 300 Series	DN25-DN1200 (Sustaining)					
520			Cla-Val Pacific / Challenger	Cla-Val	DN-80-DN1200 (Altitude)					
521		PE Flex Restraint Fitting (used as puddle flange)	+GF+		Up to DN1600					
522		Plasson		Fits DN160 to DN1600 PE Pipe	PE100/ PE4710 resin				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	
1												
523			Viadux				Dismantling joints shall be restrained type only and for Mains only. Uni-flanges shall be for meter assemblies only					
524	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	Viking Johnson			Thrust restraint type and non-thrust type are Flanged to AS4087 PN16.	Dismantling joints shall be restrained type only and for Meter Assemblies only. Use of uni-flange is subject to acceptance of SP.				Uni-flange to be used within pit or aboveground locations only	
525			Valveco	Uni-Flange Adaptor	DN50-DN500	Larger sizes of UniFlange shall be assessed for available Fitting PN vs Pipeline Test Head.	Uni-flanges shall be for meter assemblies only	Use is subject to acceptance by SP				
526			Hygrade Water	Pipemate	DN80-DN900		For Meter Assemblies only, restrained type only		Use is subject to acceptance by SP	Use is subject to acceptance by SP		
527			AVFI	AFD10 Series	DN80-DN1200		For Mains only, restrained type only	For Mains only, restrained type only				
528			AVFI	AFD20 Series	DN80-DN1200		For Meter Assemblies only, restrained type only	For Meter Assemblies only, restrained type only				
529	Flowmeter - Network Meter	No WSAA PS 4.1 - Flange to AS4087 Figure 5 4.2 - PN16	ABB	ABB				Use is subject to acceptance by SP		NOT ACCEPTED BY SP	ABB Water master	
530			Siemens	Siemens				Use is subject to acceptance by SP		NOT ACCEPTED BY SP	Use is subject to acceptance by SP	
531			E & H	E & H				E & H 53W			E & H Promag W400	Use is subject to acceptance by SP
532			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	

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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	
Category: WATER SERVICES											
533		Viadux									
534	Tapping bands for DI & PVC pipes	Gatic / Milne			Gunmetal - Positive stops				SP USE ONLY	RMC tapping band also accepted on AC pipe	
535		RMC								SP USE ONLY	
536		4N Products & Stockbrands	4N	DN100, 150, 200	Positive stops, coloured blue WSAA Appraisal PA10/18	NOT ACCEPTED BY SP					
537											
538	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	
539		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		
540		Hawle / Hygrade Water	Haku	DN63 - DN315	Ductile iron lower half						
541		Hawle / Hygrade Water	Haku	DN280 - DN500	Stainless steel strap lower half. For min PN16 (SDR11) pipes		Use is subject to acceptance by SP			NOT ACCEPTED BY SP	
542		Derwent	Uniclamp	DN125 and DN180	Only for where E-F saddles are not practical		Use is subject to acceptance by SP		Use is subject to acceptance by SP		Use is subject to acceptance by SP
543	Tapping saddle for PE - electrofusion	Plasson									
544		George Fischer		DN63, 90, 125 & 180		Accepted where PE pipes are approved to be used.			SP USE ONLY	Accepted for DN63 and DN110	
545		Friatec / Vinidex	Frialen			Comply with AS4129 PN16					Flanged saddles are not accepted by SP
546		Fusion Group / FusionPlast	Fusamatic	Up to DN355			Use is subject to acceptance by SP				Flanged saddles are not accepted by SP
547		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	
548	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	Agruline	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	
549	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								
550			Elster		Dezincification resistant material and comply with AS/NZS 3688				SP USE ONLY		
551			RMC								
552	Ball valves - Water Service	Gatic / Milne									
553		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	Elster		Dezincification resistant material and comply with AS/NZS 3688	Accepted for DN20 & DN25	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.	
554			RMC								
555			Zetco TOF								
556			Cimberio / Strongcast	Strongcast				Use is subject to acceptance by SP			
557			Austworld	LOGI VALVE				Accepted for DN20 and DN25 at meter end of services			
558		Galvin Engineering		DN20				Use is subject to acceptance by SP		NOT ACCEPTED BY SP	
559	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								
560			Elster		25 mm Dezincification resistant material and comply with AS/NZS 3688	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP			
561			RMC								
562	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		DN25 only is accepted					
563			All Valve Industries		Dezincification resistant material and comply with AS/NZS 3688.						
564			RMC		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	NOT ACCEPTED BY SP	
565			Strongcast								
566		Austworld				Both configurations of individual and combined with ball valves are accepted					
567	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								
568			+GF+		PE electro-fusion to BSP connections Metal male fittings connecting to plastic female fittings is not accepted					Push fitting not accepted by SP	
569			Friatec / Vinidex				Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE

July 2019

ACCEPTED CIVIL PRODUCTS AND MATERIALS

	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
570	PE mechanical compression fittings for Small Diameter Water Service pipes	208 or 247 DN25 to DN63 2.(a) - AS/NZS4129, EN1254 or equivalent 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		DN25 to DN63	PE to PE or PE to BSP. Push fit type is not accepted. Metal male fittings connecting to plastic female fittings is not accepted.	Use is subject to acceptance by SP		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Talbot fittings not accepted. Push type fittings only accepted with the approval of Unitywater.
571			Philmac / Philmac & Vinidex								
572			Plasson								
573			Elster	TITA							
574			Zetco TOF								
575			Talbot								
576			Alprene								
577			Iplex								
578			Viadux								
579			NUPIGECO	Elopress							
580	Austworld	LOGI CIVIL	DN25 & DN 32			Only fittings with a copper alloy body and a copper alloy compression nut are accepted for use		PE pipe stand use is subject to acceptance by SP	PE pipe stands not accepted by SP		
581	Hydroflow / SAB S.p.A	SAB Black Nut Blue Seal	DN25 to DN63			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP			
582	Meters - 20 mm (direct and sub-metering applications)	No WSA-PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer 4 - Std Tail Nut with gasket 5 - Colour and Check Valve requirements as per SEQ-SP requirements	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	Only accepted for above ground installation	
583			Elster	V200							
584			Itron	TD8							
585			RMC	WM273MRP multijet							
586			RMC	WM281MRP multijet							
587			GVT	TPWM							
588	Meters - 25 mm (direct and sub-metering applications)	No WSA-PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer 4 - Std Tail Nut with gasket 5 - Colour and Check Valve requirements as per SEQ-SP requirements	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	Only accepted for above ground installation	
589			Elster	V200							
590			Itron	TD8							
591			RMC	WM271MRP multijet							
592	Meters - 32 mm (direct and sub-metering applications)	No WSA-PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer 4 - Std Thread for attachment of a AS3565.1 Clause 2.6 (DR) Copper Alloy Oval Flange with two Bolts 5 - Colour and Check Valve requirements as per SEQ-SP requirements	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		
593			Elster	V200							
594			Itron	TD8							
595			RMC	MRP							
596	Meters - 40 mm (direct and sub-metering applications)	No WSA-PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer 4 - Std Thread for attachment of a AS3565.1 Clause 2.6 (DR) Copper Alloy Oval Flange with two Bolts 5 - Colour and Check Valve requirements as per SEQ-SP requirements	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	Horizontal orientation only		Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
597			Itron	Flostar M							
598			RMC	WM400 / V100 (PSM-T)							
599	Meters - 50 mm and larger (direct and sub-metering applications)	No WSA-PS 1 - AS 3565.1 Certified 2 - Std integral Round Flange as per AS3565.1 Clause 2.5 to AS4087 Figure B5 with four Bolts 3 - Colour and Check Valve requirements as per SEQ-SP requirements	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	NOT ACCEPTED BY SP	Above ground installation with external top accessible (basket type) inline strainers NOT ACCEPTED BY SP Only accept Meistream Plus meter installed above ground with external top accessible (basket type) inline strainers
600			Elster	H5000							
601			Arad / RMC	Woltman Silver Turbo							
602			Itron	Flostar M							
603			Itron	Woltex							
604			Sensus	Meistream							
605	Inline Strainer	No WSA-PS	Elster	Kent H4010 Strainer	Up to DN150	PN16 FI-FI Top entry basket Type	Use is subject to acceptance by SP		Use is subject to acceptance by SP		
606			RMC								
607			Hydromet								
608			Virginia Metals								
609	Flowmeters	No WSA-PS 1- Flange to AS4087 Figure 5 2- PN16	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
610			Siemens Eletromagnetic	Siemens							
611			Siemens Ultrasonic	Siemens							
612			E & H Electromagnetic	E & H							
613			E & H Ultrasonic	E & H							
614			Emerson	Emerson							
615	ABB	ABB									
616	Automatic Meter Reading (AMR) Systems (sub-metering applications)	Meter reading dials shall have between 0 kL and 10 kL of consumption showing at the time of meter supply	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. Min 12 months combined products & Installation warranty		Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP
617			Epitomy	Epitomy							
618			Utility Technology	Utility Technology							
619			Halytech	Spider							
620			Ausmeter	Ausmeter							
621	Itron	Everblu									
622	SUMS	Vivid Multi Logger									

	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
623	Meter boxes	No WSA-PS 1 - Lids Virgin HDPE with Box Virgin and/or regrid HDPE 2 - Lid in Box at Class A to AS 3996 3 - Lid shall have a slip resistant pattern that is certified to AS/NZS4586 for Table 2 (Class W) and Table 5 (Classification R11). 4 - Lids shall snap-lock into the box and shall include a metal device for Location and a separate 2 mm Galvanised Chain or 2 mm SS304 wire rope fixed to the lid and box. 5 - The Lid shall have moulded on it's upper surface Water Meter and shall be coloured as per SEQ-SP's requirements.	Everhard Industries		368L * 271W * 316D (for 20 mm meters only)	Blue, Black or Green meter box lids	Blue Lid not permitted. DN40 short box is the Dura 15"x21"x12" valve box with a "METER BOX" permanent label on lid or approved equivalent; DN40 long box is the Viscount (Linpac) P7 pit collars with a "METER BOX" permanent label on an aluminium lid or approved equivalent	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
624			Everhard Industries		492L * 271W * 316D						
625			Draper		440L * 275W * 280D						
626			Strongcast		427L * 267W * 316D						
627	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	Emerson	VALVCHEQ	DN100 & DN150	Model SC03. Flanged connection & spring set to 50 kPa	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Fitted with top accessible (basket type) inline strainer	
628	Double check valve (DCV), Double check detector assembly (DCDA)	No WSA-PS AS/NZS 2845	Emerson	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	
629			Bermad	Cla-Val							
630			Hydroflow Distributors	Watts							
631	Pre-assembled dual meter boxes	No WSA-PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Elster		DN20	Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy All components shall be approved fittings No Slip couplings	Install pre-assembled dual boxes as per SEQ-NDW-2303-1 and 2304-1	Subject to Approval of SP	Install approved pre-assembled boxes as per SP requirements	NOT ACCEPTED BY SP	Use is subject to acceptance by SP
632			Tellam								
633			RMC	KIT235 WMKIT235							
634	Pre-assembled single meter boxes	No WSA-PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Strongcast	SCMBA20	DN20	Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy. All components shall be approved fittings. No slip couplings.	Accepted assemblies are: GCSCMB-2PE/TD8 – with meter, brass PE ends, standard supply. SCMB-2PE – without meter, brass PE ends, standard supply. GCSCMB-2BSP/TD8 – with meter, thread ends, supply on request only. SCMB-2BSP – without meter, thread ends, supplied on request only Accepted assemblies are: 46491-25 – with meter, brass PE ends, standard supply. 46491-26 – without meter, brass PE ends, standard supply. 46491-22 – with or without meter, thread ends, supply on request only NOT ACCEPTED BY SP Accepted assemblies are: KIT238 – without meter, brass PE ends, standard supply. WMKIT238 – with meter, brass PE ends, standard supply. KIT237 – without meter, thread ends, supply on request only. WMKIT237 – with meter, thread ends, supply on request only	Install approved pre-assembled boxes as per SEQ-WAT-1110 set	Install approved pre-assembled boxes as per SP requirements	V200 meter only. No slip coupling	Use is subject to acceptance by SP
635			Elster								
636			Tellam								
637			RMC	KIT236 WMKIT236							
638	Sub-meter assemblies - wall mount brackets	No WSA-PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Elster	46492-00	DN20	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 Use is subject to acceptance by SP Only accepted with the use of approved slip couplings Use is subject to acceptance by SP Only accepted with the use of approved slip couplings Use is subject to acceptance by SP	Install as per CoGC Sub-Meter Guideline	Use is subject to acceptance by SP	Install approved sub-meter assemblies as per SP requirements	Slip Coupling not accepted
639			Elster	46491-00							
640			Tellam								
641			All Valve	SMA20M							
642			Strongcast	SCMLIM20							
643			Austworld	SMK							
644			RMC	KIT227							
645	RMC	KIT227Q									
646	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	Emerson	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	
647			Hydroflow Distributors	Watts							
648	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
649			RMC								
650			Pentair/Viadux	RP03							
651	Hydroflow Distributors	Watts									
652	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	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	
653			NEFA								
654			Hydroflow Distributors	Watts							

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
Category: WATER SUPPLY MISCELLANEOUS ITEMS										
656	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								
657		Tapex								
658		LWG Zurn								
659		Rain Harvesting	421			Use is subject to acceptance by SP				
660		Wenac					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
661	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 45mil 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				
662	Loose PE sleeving to DI pipe	320	Viadux	BLUEBOSS blue		Mandatory sleeving to all DI pipe				
663			Crevet			Colours are Blue for Drinking Water and Purple for Non Drinking Water to POP203				
664	PVC - M conduits	209 4.1 - PN12 minimum 4.2 - Water Service Conduit 4.3 - Series 1 SCJ 4.4 - White for Water Conduit 4.5 - SCJ only	Vinidex	Hydro S1		Minimum PN12 Series 1	CoGC also accepts uPVC series 1 PN12 as per SEQ-WAT-1106-1	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.
665			Iplex							
666			Viadux							
667			Pipemakers		Use is Subject to acceptance by SP					
668	Embedment material - crushed rock	351 4.1 - Single sized. 4.2 - Nominal 5 or 7 mm								
669	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
670	Bedding sand	AS/NZS 2566.2 Table G3 for sand.				Main pipe and large service pipe (DN63 and Larger) uses are subject to acceptance by SP Small service pipe uses (DN25- DN50 PE) are 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		
671	Concrete	357 4.1 - N20 for Thrust Blocks and Unreinforced embedment. N25 for reinforced embedment 4.2 - Slumps as required for placement				Normal class				
672	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.
673	Casing Spacers	324 4.1 - Carrier pipes OD from 100mm to 1668mm 4.2 - Min space between carrier pipes and encasing pipes 50mm	HDX Series		Runner height of 38, 65, 90 and 125 mm	For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes				
674			HD Series	kwik-ZIP	Runner height of 30, 50, 75 and 100mm 110mm OD to 355mm OD (un-grouted annulus). May be used on carrier pipe diameters greater than 355mm OD where the annulus will be grouted.	For SCL, DI, PE, PVC and GRP carrier pipes	Use is subject to acceptance of SP	Use is subject to acceptance of SP	Use is subject to acceptance of SP	Use is subject to acceptance of SP
675	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				
676	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
677	Camlock					S/Steel 316				Maximum DN100
678	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 requires QUU cast in as per Standard Drawings 4.11 - Standard Coating 4.12 - Bolt down requirement by design 4.13 - Weatherproof (sealed) Aluminum	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
679			Gatic							
680			Tellam							
681			Webforge							
682			Hygrade							
683			EJ							
684			Durham							

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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 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
685										
686	Protective external coating	Steuler KCH	Oxydur PTB		Colour white to grey & heritage green	Use is subject to acceptance by SP. External coatings at min 0.3 mm thick dry film via single coat. Sulphuric Acid resistance to suit site conditions. 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	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
Category: EMERGENCY STORAGE CHAMBERS										
688	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
689		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
690		Humes		Conc. Pipe units (2.44 m modules)						
691		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	Use Accepted with condition of 30 Year Warranty & Providing access opening of larger size about 1200 mm opening
692		Chemstore Group	Hydrosave	From 1.2 m to 3.5 m dia and 2.5 m to 20 m length						
693		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
694		Tank Solutions	Mullaly	1470mm to 3275mm in diameter 3.3m to 15m in length	Fibreglass construction As per SEQ-SPS-1402-1					
695		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