

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						May 2018	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
1	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.										
2	Category: SEWERAGE PIPES AND FITTINGS - NON PRESSURE										
3			Iplex	DWV PIPE							
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	Vinidex	DWV SEWER	DN100 150 225 300 375	Plain wall only accepted	DN100 at SN6 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum	DN100 at SN6 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum	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			Viadux	D-FLO							
6			Micron Pipelines	Micron Pipelines							
7			Pipemakers	Pipemakers	DN100 - DN300						
8											
9	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	Iplex		DN150 225 300	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Mandatory for sewers deeper than 3 metres and for sewers with minimum cover. All details to be confirmed with SP
10			Vinidex								
11			Viadux								
12	DI pipe	202S 4.1 – PN16 4.2 – Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.3 – Polyurethane lining 4.4 – Restrained 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	VonRoll / Reece	Ducpur/ Ecopur	DN80 - 700	Polyurethane internal protection		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
13			Viadux	Tytonxtreme	DN100 - 750	CAC cement lining	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Accepted in applications where DI pipe is specified e.g. building over sewer applications	NOT ACCEPTED BY SP
14			Crevet / Iplex	Ironitite	DN100 - 750						
15			Saint-Gobain	Integral Zinalium	DN100 – 750						
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 sewerage 4.4 – Extra protection by design 4.5 – Joints by design to SEQ Code Standards	Steel Mains	Sintapipe		Internal lining would be required, either Epoxy or Sintaline		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Sintapipe accepted in applications where steel pipe is specified.	
17	Polypropylene (PP) pipe	240 4.1 - Type B - ID Series 4.2 - SN10,000 4.3 - RRJ @ SBR & EPDM	Vinidex	SewerPRO	DN150 - 900			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
18			Iplex	SewerMAX	DN225 - 600						
19			Enviropipes	EnviroPipe	DN150 - 900						
20	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	Iplex	POLIplex	DN110 160 250 315 400 500 630 800 1000 1200		NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	PE is mandatory pipe for reticulation sewers, PE is preferred pipe for larger sewers. Where > PN8 is required, dark internal pipe colour may be used with prior SP approval	
21			Vinidex	Sewertech							
22			DMG	Hi-Vis							
23			Viadux								
24			Poly Pipe	SewerFlex							
25			Enviropipes	Enviropressure							
26	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, EN13244-4	George Fischer / Iplex			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.	Flanged tees and flanged saddles are not accepted by SP.
27			Friatec / Vinidex								
28			Plasson	Lightfit							
29			Agru	AGRU							
30			Fusion Group/FusionPlast	Fusamatic	Up to DN630						
31			NUPIGECO	Elofit	DN110 to DN630						
32			Hydroflow / Plastitalia S.p.A	PLAST	Up to DN630						
33	PE fittings - Fabricated	216 and AS/NZS4129 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.	Vinidex			Electrofusion fitting to be long type. PE MH connectors shall have Hydrophilic seals both sides of puddle flange.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	
34			Iplex								
35			Adroit	Adroit							
36	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	Hepworth	Supersleeve	DN100-1200		Use is subject to acceptance by SP May only be used as jacking pipes			Use is subject to acceptance by SP May only be used as jacking pipes	May only be used as jacking pipes
37			Steinzeug Keramo	Keramo							
38			Naylor / Rocla	Denlok							
39	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
40			Viadux								
41	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						
42			DEKS	DEKS shear banded coupling	DN100 to DN225				Use is subject to acceptance by SP	Use is subject to acceptance by SP	
43	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					
44			Crevet	Gibault & Universal							
45			AVK	Gibault & Universal							
46				AVK Supa-Gib Couplings	Up to DN675		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
47			Viking Johnson	MaxiFit & QuickFit							
48			Derwent								
49			DEKS	DEKS FLEXI-GIB	DN80 to DN600					Use is subject to acceptance by SP	
50			Daemco	Reinoversal	Up to DN 600						
51			Clover Pipelines	Clover Connect VPC	DN100 - DN150		Use is subject to acceptance by SP			Use is subject to acceptance by SP	

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1											
52	Reinforced Concrete pipe	233 4.1 - Class 4 4.2 - Bends not permitted 4.3 - In corrosive soils coat external face with 250 micron DFT High Build Epoxy 4.4 - Lifting holes not permitted 4.5 - 2.0 mm PE sheet Factory cast-in liner with Invert overlapped but not welded 4.6 - No additional cover 4.7 - SBR & EPDM	Rocla				Use is subject to acceptance by SP			Use is subject to acceptance by SP	Use is subject to acceptance by SP
53			Humes								
54	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		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.)
55			Global Pipe	Al Watani							
56	CC-GRP (centrifugally cast) pipe and Fittings - Sewer Pipe	237S 4.1 - PN1 4.2 - SN10,000 minimum 4.3 - Soc-Sp RRJ 4.4 - Standard Glass 4.5 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN400 - DN1400	Sewer Pipe	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
57	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		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
58			Global Pipe	Fiberstrong	DN300 - DN4000	Sewer Pipe	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
59			Superlit / Clover Pipelines	Superlit	DN300 - DN3000						
60	CC-GRP (centrifugally cast) pipe and Fittings - Jacking Pipe	205J 4.1 - As per product 4.2 - Pressure Class by design 4.3 - Stiffness Class by design 4.4 - Jacking Load by design 4.5 - 316 Stainless Steel (min) or GRP couplings 4.6 - SBR & EPDM 4.7 - Pipe Lengths to manufacturers requirements 4.8 - Standard Glass	Hobas / Global Pipe	Hobas	DN250 - DN3600	Jacking pipes	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
61			Empire Infrastructure	BOSSPIPE	DN300 - DN2000						
62			Superlit / Clover Pipelines	Superlit	DN400 - DN1400						
63	FW-GRP (filament wound) pipe and Fittings - Jacking Pipe	206J 4.1 - As per product 4.2 - Pressure Class by design 4.3 - Stiffness Class by design 4.4 - Jacking Load by design 4.5 - 316 Stainless Steel (min) or GRP couplings 4.6 - SBR & EPDM 4.7 - Pipe Lengths to manufacturers requirements 4.8 - Standard Glass	Flowtite / Iplex	Flowtite	DN300 - DN3000	Jacking pipes		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
64	Non-return valves	No WSA-PS	Iplex	Flap valve	DN50 to DN300						
65				Reflux valve fabricated	DN100						
66			Vinidex	Flap valve	DN50 to DN100	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	
67			Hygrade Water	WaStop Non-return valves	DN75 to DN200						
68			Fluid Control	Red valve - Tideflex check valves	DN50 to DN2400						
69	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		Subject to meeting the corrosion resistance requirements in Column F
70			Challenger	Challenger							
71			AVFI	AVFI							
72			HMA Valvecor	HMA Valvecor						Use is subject to acceptance by SP	
73			AVK (Note: This is the only vendor complying with 316 SS throughout)	AVK							
74	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	
75	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	
76			Challenger	Challenger							
77			AVFI	AVFI							
78			AVK	AVK							

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79	Category: SEWERAGE PIPES AND FITTINGS - PRESSURE																
80	PVC-M pipe	209 4.1 - PN16 4.2 - Sewer Rising main 4.3 - Series 2 only 4.4 - Cream refer POP203 4.5 - SBR & EPDM	Iplex	BLUERHINO	DN100 150 200 225 250 300 & 375			Use is subject to acceptance by SP		Use is subject to acceptance by SP	NOT ACCEPTED BY SP						
81			Vinidex	Hydro													
82			Viadux	TUF-FLO	DN100 - DN300												
83			Micron Pipelines	Micron Pipelines													
84			Pipemakers	Pipemakers Enviromain													
85	PVC-O pipe	210 4.1 - PN16 4.2 - MRS400 or MRS450 4.3 - Sewer Rising main 4.4 - Series 2 only, Cream refer POP203 4.5 - SBR & EPDM	Iplex	ApolloBLUE	DN100 150 200 225 250 300 & 375			Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP						
86			Vinidex	Supermain													
87			Micron Pipelines	Micron Pipelines	DN100 - DN375												
88			Pipemakers	Alphamain	DN100 to DN150												
89	DI pipe	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	Viadux	Tytonxcel	DN250 - 750 (not 225)	PN20	Cement Mortar lining of any type is not permitted within 5.0 metres of the HGL at pump stop. Alternative non-corrosive lining or pipe and fittings required. Use of Clover Pipelines is subject to acceptance by SP	Cement Mortar lining of any type is not permitted within 5.0 meters of the HGL at pump stop. Alternative non-corrosive lining or pipe and fittings required. Use of Vinidex LINX and ZAP products is subject to acceptance by SP	Cement Mortar lining of any type is not permitted within 5.0 metres of the HGL at pump stop. Alternative non-corrosive lining or pipe and fittings required. Use of Clover Pipelines, Vinidex LINX and ZAP products is subject to acceptance by SP	NOT ACCEPTED BY SP	PN20 NOT ACCEPTED BY SP						
90			Vinidex	LINX-GP													
91			Vinidex	ZAP-GP													
92			Clover Pipelines	Clover/Xinxing													
93			Viadux	Tytonxtreme													
94			Vinidex	LINX-HAC	PN20, CAC lining for corrosive flows												
95			Vinidex	ZAP-HAC													
96			Viadux	Tytonxcel	PN35						Restraint joint seals not suitable for: PN20 pipe; Aboveground applications; Combining joint restraint and thrust blocks; Epoxy or fusion coated spigots (incl Tytonxtreme pipe); 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. Use of Clover Pipelines is subject to acceptance by SP						
97			Crevet / Iplex	Ironitite													
98			Vinidex	LINX-GP													
99			Vinidex	ZAP-GP													
100			Clover Pipelines	Clover/Xinxing													
101			Viadux	Tytonxtreme	PN35, CAC lining for corrosive flows												
102			Crevet / Iplex	Ironitite													
103			Vinidex	LINX-HAC	Flange Class								Use is subject to acceptance by SP				
104			Vinidex	ZAP-HAC													
105			Viadux	Tytonxcel													
106			Vinidex	LINX-GP													
107			Vinidex	ZAP-GP													
108			Clover Pipelines	Clover/Xinxing	Flange Class, CAC lining for corrosive flows												
109			Viadux	Tytonxtreme													
110			Vinidex	LINX-HAC													
111			Vinidex	ZAP-HAC													
112					Saint-Gobain	Integral Zinalium				DN100 – DN750 (not 225)	PN35 with CAC lining; Flange Class with CAC lining						
113	DI Pipe - ISO	202S 4.1 – K9-PN35 4.2 – Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.3 – Polyurethane lining only 4.4 – Restrained 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	Use is subject to acceptance by SP						
114	DI fittings - bends, tapers, tees/branches, connectors, risers & caps/blank ends	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	Tyton Joint	Up to DN750 (not 225)	Thermal bonded polymeric coating is the standard material in WSA PS 201 and WSA PS212 All DI fittings to be wrapped					Restraint joint seals not suitable for: PN20 pipe; Aboveground applications; Combining joint restraint and thrust blocks; Epoxy or fusion coated spigots (incl Tytonxtreme pipe); Other manufacturers sockets or other pipe materials. Use of Restrained Joint Rubber Rings (Tyton-lok) subject to acceptance by SP.						
115			Crevet / Iplex	Crevet	Up to DN750 (not 225)												
116			Vinidex	Superlink	Up to DN750 (not 225)												
117			Derwent		Up to DN750 (not 225)												
118			Gillies		DN100 & DN150												
119			Himgiri Castings/Galvin Engineering / CivilPipes	Galvin	DN80 to DN300												
120			Dobbie Dico	Dobbie	DN100 to DN250												
121			Mallet	Mallet	DN80 to DN750												
122			Clover Pipelines		DN100 to DN150												
123	Bolts	No WSA-PS Refer Standard Drawing SEQ-WAT-1313-1 etc.				316 Stainless steel bolts	Refer Standard Drawing	Refer Standard Drawing	Refer Standard Drawing	SS316	Grade 316 Stainless Steel (min.)						
124	316 SS repair and flanged off-take 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		DN100 to DN300	Flanged off-take clamps approved Type R for DI, AC and CI host pipes and Type F for PVC-m, PVC-u only, to pipe manufacturers specifications. Host pipe to be of suitable condition. Crevet and Viadux Off-take clamps on AC pipes is subject to acceptance by SP. Cascade Control use is subject to acceptance by SP. Daemco repair clamps only accepted. AVK 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	Type R accepted only						
125			Viadux	Wang	DN100 to DN300												
126			Cascade Control	Rapid Clamps	DN40 to DN350												
127			Daemco	Norma Connect	DN80 to DN300												
128			AVK	AVK Series 748	Up to DN300												
129	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	Use is subject to acceptance by SP						
130	Flange (DI) off-take clamps	327 4.1 - Pipe DN63 and larger (see WSA PS 207 above) - Off-take ID 20 mm minimum 4.2 - PN16 4.3 - Female Rp thread to AS ISO 7.1 4.4 - Without electrical isolation	Hawle / Hygrade Water	Haku	DN125 to DN355	For use on PE pipe only, installed and commissioned in accordance with manufacturers recommendations All DI fittings to be wrapped	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP								

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1															
131	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	Use is subject to acceptance by SP	NOT ACCEPTED BY SP				
132			DEKS	DEKS shear banded coupling	DN100 to DN225										
133	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	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP						
134			Crevet	Gibault & Universal											
135			AVK	Gibault & Universal											
136				AVK Supa-Gib Couplings	Up to DN675										
137			Viking Johnson	MaxiFit, QuickFit	DN80 to DN600										Use is subject to acceptance by SP
138			Derwent												
139			DEKS	DEKS FLEXI-GIB											
140					Daemco							Reinoversal	Up to DN 600		
141			Clover Pipelines	Clover Connect VPC	DN100 - DN150		Use is subject to acceptance by SP		Use is subject to acceptance by SP						
142	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, PVC, DICL, SCL, PE	DN50-DN300	All DI fittings to be wrapped				Only accepted for use where welded joints are not practical Use of Synoflex is not accepted on PVC and GRP pipe materials	Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations The use of gripper type fittings on AC, PVC, DI and SCL pipe is subject to acceptance by SP				
143			AVK	Supa Plus Restraint for PE											
144			+GF+	Multi/joint 3000 Plus restraint type for AC, PVC, DI, SCL, PE											
145			Viking Johnson	Aqaufast and Aquagrip Restraint for PE	DN350-DN1400		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				
146			Nova Siria/Hygrade Water	Multigrip											
147					Daemco		Xcel Restrained Coupling and Flange Adaptor for PE	DN 63 to DN 315 for Coupling & DN63 to DN 200 for Flange Adaptor		Use is subject to acceptance by SP		Use is subject to acceptance by SP			
148	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 is subject to acceptance by SP					
149	Dismantling joints for Flange Pipe and Fittings	201 4.1 - FI-FI for DJ & FI/Sp for UniFlange 4.2 - Thrust type and non-thrust type minimum PN16 4.3 - Thrust Restraint by Fitting 4.4 - SBR & EPDM	Viadux		DN50-DN500	Thrust restraint type and non-thrust type are Flanged to AS4087 PN16. SS316 bolts, nuts and washers. Larger sizes of UniFlange shall be assessed for available Fitting PN vs Pipeline Test Head. All DI fittings to be wrapped	Restrained type only			Use is subject to acceptance by SP	Use is subject to acceptance by SP				
150			Viking Johnson				NOT ACCEPTED BY SP								
151			Valveco	Uni-Flange Adaptor			Use is limited - refer to SP for advice								
152			Hygrade Water	Pipemate			NOT ACCEPTED BY SP								
153			AVFI	AFD10 Series			Restrained type only								
154	PE pipe	207 4.1 - PN16 4.2 - Sewer Rising main 4.3 - Coil pipe permitted up to DN125 with Pipe lengths for larger DN 4.4 - Cream refer POP203 4.5 - PE100 only	Iplex	POLIplex	DN40 50 63 90 125 180 250 315 355 450 560 630 800	For directional drilling installations, minimum SDR 9 (PN20 PE100) unless specified otherwise and install with tracer wire. Pipe wall thickness to be designed for installation forces.	Use is subject to acceptance by SP		Use is subject to acceptance by SP	PE is preferred pipe material - PE shall be used unless specific site conditions dictate otherwise.	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)				
155			Vinidex	Sewertech											
156			DMG	Hi-Vis											
157			Viadux												
158			Poly Pipe	SewerFlex											
159			Cromford	Identipe											
160			Enviropipes	Enviropressure											
161			ACP	ACP											
162			ASA				Use is subject to acceptance by SP			Use is subject to acceptance by SP	NOT ACCEPTED BY SP				
163			Agru									Use is subject to acceptance by SP			
164	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	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)				
165	PE fittings - Moulded - High Stress Crack Resistant (HSCR) Polyethylene	208 2(a) - AS/NZS4129 or EN1555 or EN12201 or EN13244 is acceptable. HSCR compounds shall comply with AS/NZS 4131 and POP016. 4.1 - PN16 4.2 - Electrofusion and butt weld 4.3 - Couplings, Reducers, End Caps, Bends, Tees, Stub Flanges 4.4 - Flanges & SS backing rings to AS/NZS 4087 Fig B5 or B7 4.5 - SBR & EPDM	Agru	Agru	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	Use is subject to acceptance by SP					
166	PE fittings - Moulded	208 2(a) - AS/NZS4129 or EN1555 or EN12201 or EN13244 is acceptable 4.1 - PN16 4.2 - Electrofusion and butt weld 4.3 - Couplings, Reducers, End Caps, Bends, Tees, Stub Flanges 4.4 - Flanges & SS backing rings to AS/NZS 4087 Fig B5 or B7 4.5 - SBR & EPDM	George Fischer		DN63XDN32 to DN350XDN90	Electrofusion fitting to be long type. Stub flange may only to be used for DN450 and larger sizes.	Accepted where PE systems are approved to use	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				
167			Friatec / Vinidex	Frialen											
168			Plasson												
169			Agru	AGRU	Up to DN630										
170			Fusion Group / FusionPlast	Fusamatic	Up to DN630		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				
171			NUPIGECO	Elofit	DN20 to DN710										
172			Hydroflow / Plastitalia S.p.A	PLAST	Up to DN630										
173			Simona / Plasson	Simona	Up to DN500		Use is subject to acceptance by SP		Use is subject to acceptance by SP	Seamless sweep bends not accepted	Seamless sweep bends not accepted				
174			Mako	Mako	Up to DN630							Use is subject to acceptance by SP		Use is subject to acceptance by SP	Only butt welded spigot fittings accepted
175	PE fittings- Fabricated	216 and AS/NZS4129 4.1 - PN16 minimum 4.2 – Electrofusion or butt welding Including reducers, flanges, end caps, reducing tees and sweep bends	Adroit	Adroit		Butt Welded Fittings	Accepted where PE systems are approved to use	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP					

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						May 2018	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	
176	Full face PE flanges	208 4.1 - PN16 4.2 - Electrofusion and butt weld 4.3 - Full Face Flange with SS backing ring 4.4 - Flange standard AS/NZS 4087 B5 or B7 4.5 - SBR & EPDM	Simona / Plasson	Simona			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use of stub flanges is subject to acceptance by SP	Not accepted by SP	Use is subject to acceptance by SP	
177			Plasson		DN80/DN100	Slotted flanges & backing rings suit both DN80 and DN100 to WSAA 98/50					Use of stub flanges is subject to acceptance by SP	
178			Iplex		Up to DN355	Full bore connections						
179			Friatec / Vinidex	Frialen	Up to DN180	Metal insert in the flange, backing rings not required				Use is subject to acceptance by SP	Use is subject to acceptance by SP	
180			216 and AS/NZS4129 4.1 - PN16 4.2 - Electrofusion and butt weld	Rodney / Vinidex	Maxi Stub	Up to DN355				Full bore connection		
181	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 - 813	RRJ unless otherwise approved	Use is subject to acceptance by SP DN610 minimum size	Use is subject to acceptance by SP DN610 minimum size	Use is subject to acceptance by SP DN610 minimum size	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
182	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	Use is subject to acceptance by SP	
183	Resilient seated gate valves, thermal bonded polymeric coating	260 4.1 - PN16 4.2 - All End configurations accepted 4.3 - Integral By-pass on DN450 and larger (Unitywater accepts either integral or constructed by-pass as per job specification) 4.4 - Gear Box on DN600 and larger (Refer Mechanical List) 4.5 - Anti-Clockwise closing 4.6 - No requirement for spindle cap colour 4.7 - Extension Spindle to WSA PS - 262 4.8 - Spindle Cap 4.9 - SBR & EPDM	AVK	Series 57 (light type only for DN100 & 150) Series 570 Series 36/80 Series 01/71 Series 55	Up to DN400 Up to DN400 Up to DN300 Up to DN300 DN450 to 600	For PE pipes PE gripper Sluice Valves by Hawle E2 System 2000 or AVK Supa Plus Coupling Series 01/70 or equal Sluice Valves with PE stubs for electrofusion acceptable. Some valves may not need by-pass (check with SEQ SPs). All DI fittings to be wrapped	DN600 and larger valves shall be DeZurik Eccentric Plug Valves			Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.		
184			Hawle	E2								
185			Viadux	Series 500 Auslite II Auslite III	DN200 - DN300 Up to DN 400							
186			Karon / Challenger	Karon	DN80 - DN600							
187			AVFI								Use is subject to acceptance by SP	
188			Betta	BETTA	DN100 - DN400						Gripper type accepted up to DN150	Use is subject to acceptance by SP
189			AAP Industries	Maxiflo/appFLO	DN80 to DN300						WSAA Appraisal 11/26 Issue 2	
190			Derwent Industries	Derwent	DN80 - DN600						WSAA Appraisal 1511	
191			DAEMCO		DN80 to DN300						WSAA Appraisal 1517 (10/05/16)	
192	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	
193	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		
194	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	DI Fittings to WSA PS 201 for Tees and Bends			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP Coupling - Grade 316 Stainless Steel (min.)	
195	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	DI Fittings to WSA PS 201 for Tees and Bends			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP Coupling - Grade 316 Stainless Steel (min.)	
196			Global Pipe	Fiberstrong	DN300 - DN4000							
197			Superlit / Clover Pipelines	Superlit	DN300 - DN3000							
198	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	
199			Siemens	Siemens				Use is subject to acceptance by SP		NOT ACCEPTED BY SP	Use is subject to acceptance by SP	
200			E & H	E & H				E & H 53W		E & H Promag W400	Use is subject to acceptance by SP	
201			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		

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						May 2018		ACCEPTED CIVIL PRODUCTS AND MATERIALS			
	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
202	Category: SEWERAGE MISCELLANEOUS ITEMS										
203	Maintenance structure covers, frames and risers	290 4.1 - DN600 4.2 - Round Solid Top (Conc Infill - QUU only) Sealed Type 4.3 - 600 mm Clear Opening 4.4 - Class B and Class D 4.5 - Rocking of cover in frame not permitted 4.6 - Lifting Key as per Standard Drawings 4.7 - Markings to AS3996 Clause 1.6 (a) to (f). 4.8 - No Hinge 4.9 - Standard Packaging and Delivery 4.10 - QUU require QUU cast in as per Standard Drawings 4.11 - Standard Coating 4.12 - Bolt down for Surcharge and overland flow areas, 4 x M8 (min) SS316 Bolts 4.13 - by Standards	Gatic / Milne			Refer Standard Drawings. Covers with another Service Provider's name not accepted. Use of Square and Rectangular Covers and Frames subject to SP approved based on Design needs	Concrete Infill Covers NOT ACCEPTED BY SP	Concrete Infill Covers NOT ACCEPTED BY SP	Concrete Infill Covers NOT ACCEPTED BY SP		Concrete Infill Covers NOT ACCEPTED BY SP
204			EJ								
205			Webforge								
206			Tellam								
207			Durham								
208			Hygrade								
209	Maintenance shaft covers, frames and risers DN<=450	292 4.1-DN<=450 Round 4.2-DN360 min clear opening 4.3-Standard Lifting Key 4.4-Markings to AS3996 Clause 1.6 (a) to (f) 4.5-Standard packaging 4.6-No specific markings required 4.7-No bolt down required	Smartstream	Smartstream Top Hat- P8HDS	360 mm clear opening	DI-Class D			Use is subject to acceptance by SP	Use is subject to acceptance by SP	
210			Smartstream	Smartstream Top Hat- P8PEC		PE - Class B					
211			SYI Foundry/Aymroo	Aymroo		CI - Class B					
212	Maintenance hole lightweight composite lids and frames (non-corrosive)	292 4.1-DN<=600 Round 4.2-DN600 min clear opening 4.3-Standard Lifting Key 4.4-Markings to AS3996 Clause 1.6 (a) to (f) 4.5-Standard packaging 4.6-No specific markings required 4.7-Bolt down for Surcharge and overland flow areas, 2 x M8 min SS316 Bolts	Terra Firma			Composite - Class B and D	Non-Corrosive MH lids and frames are required for Discharge Manholes and all Manholes for sewers DN300 and larger TMR approval is required on TMR roads	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
213			ACO SAKU			Composite - Class B					
214			Prime Composites			Composite – Class B and D					
215			EJ			EJ SERVO					Composite – Class B and D
216	Emergency Storage maintenance hole cover	290 4.1 – DN1000 4.2 – Two part round 4.3 – 920 mm Clear Opening 4.4 – Class C 4.5 – Rocking of cover in frame not permitted 4.6 – Hand grip lifting points 4.7 – No requirements 4.8 – Central Hinge not required 4.9 – Standard Packaging and Delivery 4.10 – No requirements 4.11 – No requirements 4.12 – 4 x 3/8" Allen Key SS 316 Bolts 4.13 – Nil Seat ring SS 316	Treloar	MC1000-Manway Cover	DN900	Class C Fabricated S/Steel grade 316 ring Nitrile gasket seal				Use is subject to acceptance by SP	
217	Step irons	314 4.1 - Single Step 4.2 - Complies with Figure 5.10 of AS1657 4.3 - Steel bar internal with Plastic encapsulation or SS316 4.4 - Plastic encapsulation or SS316 4.5 - No reflectors required 4.6 - No other safety devices required	Miyama / Nextep	Miyama		M053	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		NOT ACCEPTED BY SP
218			Aymroo	Aymroo							
219			C & C Plastics / Havestock	Posistep							
220			Industrial Steps & Ladders	Sure-Step							
221	Ladders	315 4.1 - Type D - Fixed Ladder with two Stiles 4.2 - PBT, FRP, SS316, Galvanised Steel or Aluminium 4.3 - By Standards 4.4 - By Standards 4.5 - Reflectors optional 4.6 - 150 mm from CL of rung to MH wall 4.7 - By Standards 4.8 - Colour as per material 4.9 - SS 316	Miyama / Nextep	Miyama		Fibre reinforced plastics (yellow). Brackets & Fasteners to be SS316 Min. Clearances for Rung Type Ladders as per AS1657 Fixed Platforms, Walkways, Stairways and Ladders - Design and Installation 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.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		NOT ACCEPTED BY SP
222			Industrial Steps & Ladders	Add-A-Step							
223			Galvanised Steel								
224			Stainless Steel or Aluminium								
225	Maintenance Shaft PVC	321 4.1 - As per Standards 4.2 - As per Specifications 4.3 - As per Standards 4.4 - Inlet and Outlet at DN150 to DN225 4.5 - Configurations as shown in Standard drawings 4.6 - As per accepted product 4.7 - Inlet and Outlet Sewer connection RRJ 4.8 - Cap as shown in Standard Drawings 4.9 - As per Standard Drawings 4.10 - Connect to PCV-U DWV pipe 4.11 - Max depth 3.0 metres FSL to Invert of Sewer Pipe	Aymroo	Aymroo	DN225 PVC-U Riser Shaft	Configurations of "Central Axis" maintenance shaft (CAMS) are not accepted		Refer to clause 6.7.2 of the SEQ Sewerage Code	Refer to clause 6.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	DN225 risers not accepted. Min DN300 risers are accepted.
226			SMS	SMS # MS3 DN150 Only							
227	Maintenance Shafts PE	322 4.1 - As per Standards 4.2 - As per Specifications 4.3 - As per Standards 4.4.a - Inlet and Outlet at DN150 to DN225 for PVC RIGSS 4.4.b - Inlet and Outlet at DN160 to DN250 for PE Nusewer 4.5 - Configurations as shown in Standard drawings 4.6 - As per accepted product 4.7.a - Inlet and Outlet PVC Sewer connection RRJ 4.7.b - Inlet and Outlet PE Sewer connection Electrofusion 4.8 - Cap as shown in Standard Drawings 4.9 - As per Standard Drawings 4.10 - Max depth 3.0 metres FSL to Invert of Pipe	Smartstream	Poo-Pit		RIGSS DN225 PVC riser shaft. Nusewer fully welded with DN250 PE risers and sewer stubs.	Approved for DN150 to DN225 RIGSS only. Refer Standard Drawing SEQ-SEW-1314 Set for other approved PE MS and MH options	Approved for DN150 RIGSS only. Refer to clause 6.7.2 of the SEQ Sewerage Code	Approved for DN150 to DN225 RIGSS only. Refer to clause 6.7.2 of the SEQ Sewerage Code. Refer Standard Drawing SEQ-SEW-1314 Set for other approved PE MS and MH options	Max depth of 5.0 meters is acceptable	DN225 risers not accepted. Min DN300 risers are accepted.

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						May 2018	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
1											
228	Maintenance Shafts Polypropylene - DN425 and DN600 risers	337, 341 4.1 – DN425 and DN600 Risers 4.2 – Polypropylene Riser 4.3 – DN425 SN4 & DN600 SN8 riser pipe 4.4A – DN425 Base with DN150 sewer 4.4B – DN600 Base with DN150/225 sewer 4.5 – In-line and bends and tees 4.6 – Base and Riser ribbed 4.7A – EPDM or SBR Ring Joints RIGSS 4.8 – No locking or relief cap 4.9 – Standard MH surround, cover and frame 4.10- Max depth 3.0 meters to Invert of Sewer Pipe	Iplex	EZIpit PA 09/01 & PA 09/1-2		Refer Standard Drawings	Approved for DN150 to DN225 RIGSS only as per Cell B Base is single DN size	Refer to clause 6.7.2 of the SEQ Sewerage Code	Approved for DN150 to DN225 RIGSS only Base is single DN size Refer to clause 6.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	Approved for DN150 to DN225 RIGSS only as per cell B, Base is single DN size, NOT ACCEPTED FOR NUSEWER
229	Maintenance Shafts Polypropylene - DN225 and DN300 risers	341 4.1 – DN225 and DN300 Risers 4.2 – PVC Riser 4.3 – SN8 riser pipe 4.4 - DN150 sewer 4.5 – In-line and bends and tees 4.6 – Base ribbed, Riser Solid Wall PVC 4.7 – EPDM or SBR Ring Joints RIGSS 4.8 –Locking relief cap as per Standard Drawings 4.9 - Standard MH surround, cover and frame 4.10- Max depth 3.0 meters to Invert of Sewer Pipe	SMS	SMS PA 09/08 parts 0 to 5 Code: MS1 Code: MS2 Code: MS5		Refer Standard Drawings	Approved for DN150 RIGSS only	Approved for DN150 RIGSS only Refer to clause 6.7.2 of the SEQ Sewerage Code	Approved for DN150 RIGSS only Refer to clause 6.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	Approved for DN150 RIGSS only. DN225 risers not accepted. Min DN300 risers are accepted.
230			REHAU	OD400-GD (Type H12) OD400-RML (Type H13)							
231	Pre-cast Maintenance Holes	323 4.1a - DN1000 minimum MH 4.1b - DN600 minimum MS 4.2 - Configurations as per Standard Drawings 4.3 - No step irons or ladders 4.4 - Elastomeric and Butyl rubber seals accepted 4.5 - Calcareous aggregates no additional cover 4.6 - No special treatments 4.7 - Base format as per SEQ SP approval 4.8 - Configurations as per Standard Drawings	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
232			Rocla								
233	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					
234			Tellam								
235	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		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
236	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
237			Ingal EPS							Accepted Height 12.0 m	Minimum accepted Height 6.0 m
238			Viadux								
239	Valve box and cover C.I. & D.I.	No WSA-PS Refer details on SEQ-WAT-1305-1 and SEQ-WAT-1305-2	NIBF			Refer Water Code Standard Drawings for approved Valve Box and Cover					
240			Gatic / Milne								
241			Tellam								
242	Loose PE sleeving to DI pipe	320 Cream Colour to POP203	Viadux	BLUEBOSS Cream		Mandatory sleeving to all DI pipe	Gravity pipe Grey colour Pressure pipe Cream colour	Gravity pipe Grey colour Pressure pipe Cream colour	Gravity pipe Grey colour Pressure pipe Cream colour		
243			Crevet								
244	Embedment material - crushed rock	351 4.1 - Single sized 4.2 - Nominal 5 or 7 mm									
245	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
246	Concrete-Normal Class	357 4.1 - As follows N20 Thrust Blocks N25 for reinforced embedment 4.2 - Slump as required for placement									
247	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					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	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
248		275 Refer Appendix B of AS4883	ARI Flow control								
249		Size of Valve - DN50 BSP, DN50 to DN200 Flanged.	Bermad								
250	Gas release valves	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	Vent-O-Mat		DN50-DN200	PN16, Anti Slam as required, Thermal bonded polymeric coating or 316 Stainless steel	DN225 and larger mains to only use Vinloc-Smartvalve			See drawing SEQ-SPS-1605-1 for standard gas release valve arrangement (manual operation). When QUU requires an automatic gas release valve, Vent Master PX is accepted. Use of others is subject to acceptance.	DN225 and larger mains to only use Vinloc-Smartvalve
251			Odour Technologies	Vinloc-Smartvalve							
252			AVFI	ARV-3-N							
253			ISCO	Vent Master PX							
254		264 Refer Appendix B of AS4794	HMA Valveco	Valmatic Swing-flex	DN50 - DN600		NOT ACCEPTED BY SP				
255		a) Class - PN16 min - Size by Design	Dobbie Dico	Dobbie Dico	DN80-DN900						
256	Non-return valves - Swing check with counterweight lever arm	b) Medium - Sewage	AVK	AVK Swing Check Valve 41/25	DN50	MIN. PN16, Thermal bonded polymeric coating			Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP
257		c) Installation - Horizontal	AVK	AVK Swing Check Valve 41/8X	DN80-DN300						
258		d) Spindle - Extended	Challenger Valves	Challenger - RSSC	DN80-DN375						
259		e) Lever and Counterweight minimum with switches and indicators by Design	AVFI Pty Ltd	AVFI - RSFC	DN50-DN300		NOT ACCEPTED BY SP				
260		j) Flanged to AS 4087 Figure B5	HMA Valveco	Valmatic Swing-flex	DN50 - DN600						
261			Dobbie Dico	Dobbie Dico	DN80-DN900						
262	Non-return valves - free acting (without counterweight) Swing Check	a) Class - PN16 min - Size by Design	AVK	AVK Swing Check Valve 41/25	DN50	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
263		b) Medium - Sewage	AVK	AVK Swing Check Valve 41/8X	DN80-DN300						
264		c) Installation - Horizontal	Challenger Valves	Challenger - RSSC	DN80-DN375						
265		d) Spindle - Extended	AVFI Pty Ltd	AVFI - RSFC	DN50-DN300						
266			Vinindex								
267	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 @ SN6 min and Pipe DN150 and larger SN8 min. Fittings SN6 min 4.4 - RRJ @ SBR & EPDM	Iplex	Deep Sewer Junction & Reinforced Fittings such as Oblique Junctions and House Connection Bends and Inspection Tees	DN100-300	DWV uPVC Moulded Fitting reinforced to SEQ Standards. Type D Junction from moulded fittings welded and fibreglass wrapped. 45 Deg Oblique Jn and Property Connection bends and Inspection Tees fibreglass wrapped. Fabricator has Certification to Section 6 of AS/NZS 1260 and fittings Fibreglass wrapped as shown on the drawings SEQ-SEW-1104-1 and SEQ-SEW-1105-1.				NOT ACCEPTED BY SP	DN100 at SN10, DN150 and larger at SN8 and Fittings at SN8 minimum
268			Fabfit								
269			M.E. Christensen								

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						May 2018	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
1											
270	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	AS/NZS 1260 SN8 DN150 Bends available from 5Deg to 45Deg. DN225 and larger individually fabricated to 45Deg.		Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
271			Iplex								
272			Tri Underground								
273			Fabfit								
274			M.E. Christensen								
275	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								
276			Tapex								
277			Rain Harvesting	421			Use is subject to acceptance by SP				
278	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. Conectors 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					
279	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		
280	Hydrophilic Seal			Hydrotite							
281	Casing Spacers	324 4.1 - Carrier pipes OD from 100mm to 1668mm 4.2 - Min space between carrier pipes and encasing pipes 50mm	kwik-ZIP	kwik-ZIP	HDX Series with Runner height of 38, 65, 90 and 125 mm	For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes					
282	Camlock					S/Steel 316					Maximum DN100
283	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
284			Agrusafe								
285			Bluey Technologies								
286			AKS								
287	Protective internal coating - other coating types	WSA 201 Manual for Selection and Appliaction 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	Use is subject to acceptance by SP (minimum 2.0 mm thickness)
288				Epigen 1311 Ultra							
289			Sika Australia	Sikagard - 63N							
290			Hychem Epoxy Systems	Hychem TL5							
291			International Paints	Ceilcoat 2000 Flakeline							
292			ITWPF	Epirez 733UHB							
293			Fernco / JDP Applications	Ultracoat Epoxy Coating							
294			Interflow	Quadex Aluminalliner Plus			Use is subject to acceptance by SP				
295	Protective external coating	WSA 201 Manual for Selection and Appliaction 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 0.3 mm thick via single coat. SP Approved Equivalents are the listed internal coatings	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP	Use is subject to acceptance by SP (minimum 2.0 mm thickness)

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						May 2018	ACCEPTED CIVIL PRODUCTS AND MATERIALS					
	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	
296	Category: WATER SUPPLY PIPES - PRESSURE											
297	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	PN20 PVC-M and PN35 DI/DICL are preferred pipes for carriageways and industrial/commercial areas.			Only accepted where PE is unsuitable	NOT ACCEPTED BY SP	
298			Vinidex	Hydro Blue								
299			Viadux	Tuf-Flo								
300			Micron Pipelines	Micron Pipelines	DN100 to DN300					Use is subject to acceptance by SP		
301			Pipemakers	Pipemakers Enviromain	Only accepted where PE is unsuitable							
302	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 No-Drinking Water refer POP203 4.5 - SBR & EPDM	Iplex	Apollo Blue	DN100 to DN300	Series 2 PN16, Min SN 10 MRS400 or MRS450		SP USE ONLY	Use is subject to acceptance by SP	NOT ACCEPTED BY SP		
303			Vinidex	Supermain	DN100 - DN375							
304			Micron Pipelines	Micron Pipelines								
305			Pipemakers	Alphamain	DN100 to DN150	Use is subject to acceptance by SP						
306	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	Viadux	Tytonxcel	DN250 - 750 (not 225)	PN 20	Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SP PN20 PVC-M and PN35 DI/DICL are preferred pipes for carriageways and industrial/commercial areas. Use of Clover Pipelines is subject to acceptance by SP	Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SP Use of Vinidex LINX and ZAP products is subject to acceptance by SP	Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SP Use of Clover Pipelines, Vinidex LINX and ZAP products 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 (incl Tytonextreme pipe); Other manufacturers sockets or other pipe materials. Use of Clover Pipelines is subject to acceptance by SP	
307			Vinidex	LINX-GP								
308			Vinidex	ZAP-GP								
309			Clover Pipelines	Clover/Xinxing								
310			Viadux	Tytonexcel	Up to DN750 (not 225)	PN 35				Only accepted where PE is unsuitable. Seal coating required for all sizes Use of Clover Pipelines, Vinidex ZAP products is subject to acceptance by SP		
311			Crevet / Iplex	Ironitle								
312			Vinidex	LINX-GP								
313			Vinidex	ZAP-GP								
314			Viadux	Flange Class		Flange Class						
315			Vinidex	LINX-GP								
316			Vinidex	ZAP-GP								
317			Clover Pipelines	Clover/Xinxing								
318			Saint-Gobain	Hydroclass Zinalium	DN100 – DN750 (not 225)	PN35, Flange Class					Only accepted where PE is unsuitable. Seal coating required for all sizes	Use is subject to acceptance by SP
319			Clover Pipelines	Clover/Xinxing							Use is subject to acceptance by SP	Use is subject to acceptance by SP
320	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. PN20 PVC-M and PN35 DI/DICL are preferred pipes for carriageways and industrial/commercial areas.	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use is subject to acceptance by SP	Use is subject to acceptance by SP
321	Small DN Ductile Iron Water Main pipe at PE OD's		Saint-Gobain PAM	BLUTOP	DN75-DN160	Restrained Joints PN16 Unrestrained joints PN25	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use is subject to acceptance by SP	Use is subject to acceptance by SP
322	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	
323	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		OD25 32 40 50 63 90 125 180 250 315 355 450 560 630 800	PE100 PN16 Blue colour - solid or striped for drinking water Purple colour - solid for non-drinking water For directional drilling installations, minimum SDR 9 (PN20 PE100) unless specified otherwise and install with tracer wire. Pipe wall thickness to be designed for installation forces.	1 - Used as Water Service pipe at DN25 and DN32 recommend PE80B pipe (DN50 and DN63 by CoGC) 2 - Used as Drinking Water main at DN63 and DN110 in Dual Water Supply 3 - Used as A+ Non Drinking Water main for Cul-de-sac terminal end at DN63 in Dual Water Supply 4 - Used as Drinking Water main for Cul-de-sac terminal end at DN63 in traditional Drinking Water Reticulation	*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.		
324			Vinidex									
325			DMG									
326			Cromford	Identi-pipe								
327			Poly Pipe									
328			Viadux	Advantage/TYCO10	DN20 to Dn315							
329			Enviropipes	Enviropressure								
330	ACP	ACP	DN20 to DN125									
331	ASA	BLUELINE										
332	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 DN32 recommend PE80B pipe (DN50 and DN63 by CoGC) 2 - Used as Drinking Water main at DN63 and DN110 in Dual Water Supply 3 - Used as A+ Non Drinking Water main for Cul-de-sac terminal end at DN63 in traditional Drinking Water Reticulation 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		

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						May 2018	ACCEPTED CIVIL PRODUCTS AND MATERIALS				
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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
333	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
334	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
335	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
336			Global Pipe	Fiberstrong	DN300 - DN4000						
337			Superlit / Clover Pipelines	Superlit	DN300 - DN3000						
338	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

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						May 2018	ACCEPTED CIVIL PRODUCTS AND MATERIALS						
	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		
339	Category: WATER SUPPLY FITTINGS - PRESSURE												
340	Lightweight DI bends, tees/branches & connectors	201 4.1 - Soc-Soc, Soc-FI & FI-FI 4.2 - PN16 fittings 4.3 - By approval 4.3 - SBR & EPDM	Viadux	Auslite	DN100 & DN150	Lightweight fittings Thermal bonded polymeric coating All DI fittings to be wrapped	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use of Restrained Joint Rubber Rings (Tyton-lok) subject to acceptance by SP		
341			Dobbie Dico	Dobbie	DN100 to DN150								
342			Himigiri Castings/Galvin Engineering / CivilPipes	Galvin	DN100 & DN150								
343			Clover Pipelines		DN100 to DN150								
344	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	Up to DN750	Thermal bonded polymeric coating All DI fittings to be wrapped					Use of Restrained Joint Rubber Rings (Tyton-lok) subject to acceptance by SP		
345			Crevet / Iplex	Crevet									
346			Vinidex	Superlink									
347			Derwent										
348			Gillies		DN100 & DN150								
349			Himigiri Castings/Galvin Engineering / CivilPipes	Galvin	DN80 to DN300								
350			Dobbie Dico	Dobbie	DN100 to DN250								
351			Mallet	Mallet	DN80 to DN750								
352	Clover Pipelines		DN100 to DN150	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Caps / Blanks Ends not accepted	Caps / Blank Ends not accepted					
353	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	Up to DN750	Long type All DI fittings to be wrapped DI must have thermal bonded polymeric coating							
354			Crevet	Gibault & Universal Multigib									
355			AVK	Gibault & Universal									
356				AVK Supa-Gib Couplings	Up to DN675								
357			Viking Johnson	MaxiFit, QuickFit									
358			Derwent										
359			DEKS	DEKS FLEXI-GIB	DN80 to DN750								
360			Daemco	Reinoversal	Up to DN 600								
361	Clover Pipelines		DN100 to DN150	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP							
362	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, PVC, DICL, SCL	DN50-DN300					Use of Synoflex is not accepted on PVC and GRP pipe materials	The use of gripper type fittings on AC, PVC, DI and SCL pipe subject to acceptance by SP		
363			+GF+	Multi/ joint 3000 Plus restraint type for AC, PVC, DICL, SCL									
364			Nova Siria/Hygrade Water	Multigrip for all pipe material, For PVC and PE pipes use Nova Siria reinforcing liner inside the pipe when installing multigrip	DN350-DN1400					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
365	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 is subject to acceptance by SP			
366	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	Use is subject to acceptance by SP		
367	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		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	Use is subject to acceptance by SP	Use is subject to acceptance by SP	SP USE ONLY			
368			Viadux	Readytap	DN100 to 300		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP				
369			Crevet / Iplex	Pretapped	DN100 & DN150								
370			Vinidex	Superlink	DN100 & DN150								
371			Himigiri Castings/Galvin Engineering / CivilPipes	Galvin	DN100 & DN150								
372		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			
373	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 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. Crevet and Viadux Off-take clamps on AC pipes is subject to acceptance by SP. Cascade Control use is subject to acceptance by SP. Daemco repair clamps only accepted. AVK 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		
374			Viadux	Wang	DN100 to DN300								
375			Cascade Control	Rapid Clamps	DN40 to DN350								
376			Daemco	Norma Connect	DN80 to DN300								
377			AVK	AVK Series 748	Up to DN300								
378	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	Use is subject to acceptance by SP		
379	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				

	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											
380			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 DN450 to 600	Anchor legs approved PE Pipe ended approved Gripper ends approved					
381			Hawle / Hygrade Water	E2 FL Ends E2 System 2000 A Valve FL & SOC Ends	DN50 - 200 DN50 - 300 DN80 - 200	WSAA Appraisal 11/23 WSAA Appraisal 06/07			Use is subject to acceptance by SP		Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.
382			Viadux	Series 500 Auslite Auslite II Bayard Sureflow Auslite III	Up to DN600 DN80, 100 & 150 DN100 to DN300 DN50 - DN200 Up to DN 400	Anchor Legs approved With PE pipe tails approved	DN500 and DN600 with DN100 By-pass DN750 with DN150 By-pass		Use of Auslite II is subject to acceptance by SP		
383			Karon / Challenger	Karon	DN80 - DN600						
384			AVFI							Use is subject to acceptance by SP Gripper type accepted up to DN150	Use is subject to acceptance by SP
385			Betta	BETTA	DN100 - DN400						
386			AAP Industries	Maxflo/appFLO	DN80 to DN300	WSAA Appraisal 11/26 Issue 2			Use is subject to acceptance by SP		
387			Derwent Industries	Derwent	DN80 - DN600	WSAA Appraisal 1511					
388			DAEMCO		DN80 to DN300	WSAA Appraisal 1517 (10/05/16)					
389	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. 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
390			Pentair / Viadux	Keystone							
391			Ebro	Ebro							
392			AVFI	AVFI							
393	Butterfly Valves	263 4.1- PN16 4.2- resilient seated wafer, lugged or double flanged	Valveco	Valveco	DN50-600 for wafer/ lugged DN100-1000 double flanged	Body ductile iron with fusion bonded polymeric coating external to 300 µm, internal to 350 µm (min.) or high-build two-pack epoxy to 500 µm (min.). Disc stainless steel Grade 316. Shaft stainless steel Grade 316, 410, 420, 430 or 431. Seat EPDM. All fasteners stainless steel Grade 316. Operation Type: Lever or Gearbox. Gearbox ratio as per manufacturer's requirement, coating – high build two-pack Epoxy 275 µm (min.)	DN100 to DN250 Property Service valves are lugged and Anti-clockwise closing hand lever operated. DN375 and larger valves are double flanged and Anti-clockwise closing gearbox operated.	Use is subject to acceptance by SP Direction of closing: Anti-clockwise	Use is subject to acceptance by SP Direction of closing: Anti-clockwise	Use is subject to acceptance by SP	Direction of closing: Clockwise Wafer or Lugged valves not accepted without prior approval
394			Iplex	AVK							
395			Challenger	Challenger			Accepted wafer or lugged DN50 to DN300				
396			Hydroflow Distributors	Watts			Use is subject to acceptance by SP		Use is subject to acceptance by SP		Use is subject to acceptance by SP
397			AVK	Series 30/00 non-swab and 30/10 for swab					DN80 Flange to A.S.4087 Fig B5		
398			Viadux	Sureflow					Swabbing type at main ends refer SEQ-WAT-1302-1	Swab type only accepted. DN100 flanged to AS 4087 Fig B5.	All new hydrants are to be 100 mm with 100 mm flanges, 100 mm risers and spring heads
399	Hydrants	267 4.1 - DN80 and DN100 Flanges	Civil Pipe Supplies	BETTA normal & Swab		Removable Top Cap & Internal Assembly. Thermal bonded polymeric coating. Purple body and lug for recycled water.	DN80 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		Use is subject to acceptance by SP	NOT ACCEPTED BY SP
400			AAP Industries	MAXIFLO/appFLO					Use is subject to acceptance by SP	Swab type only accepted. DN100 flanged to AS 4087 Fig B5.	All new hydrants are to be 100 mm with 100 mm flanges, 100 mm risers and spring heads
401			Derwent Industries	Derwent non-swab							
402			Dobbie Dico				Use is subject to acceptance by SP				
403			AVK					DN80 Flange to AS4087 Fig B5			
404	Hydrant and Air Valve Isolating Valves	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	Viadux		DN80 - DN100	Thermal bonded polymeric coating Min. PN16		Swabbing type at main ends refer SEQ-WAT-1302-1	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Mandatory for Hydrants on Trunk Water mains >DN300 Isolator Valve for Hydrant - Min. DN100 Clockwise Opening Direction
405			Crevet								
406			Viadux								
407	Valve box & cover C.I.	No WSA-PS Refer details on SEQ-WAT-1305-1 and SEQ-WAT-1306-1	NIBF / Iplex			Bitumen coated to AS 3750.4	Water Service Boxes for footpath and roadway shall be as per Item 41 of 11-133 and as shown on 11-134 of meter standard drawings				
408			Tellam								
409			Gatic / Iplex								
410			Viadux								
411	Hydrant box & cover C.I.	No WSA-PS Refer details on SEQ-WAT-1305-1 and SEQ-WAT-1306-1	NIBF / Iplex			Bitumen coated to AS 3750.4					
412			Tellam								
413			Gatic/Iplex								
414	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
415			Crevet								
416			Vinidex								
417	Plastic surround to valve/hydrant boxes	No WSA-PS For sizes refer details on SEQ-WAT-1306-1	Replas Australia			Non-trafficable location only.	Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2309-1	Coloured to SEQ-WAT-1300-1	Coloured to SEQ-WAT-1300-1	Coloured to SEQ-WAT-1300-1, SEQ-NDW-2122-1 and SEQ-NDW-2125-2	Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2209-1
418			Viadux								
419	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	NIBF / Iplex			AS2638 Compliant					
420			Forge Bros / Vinidex								
421			Challenger				Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
422	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					
423			NIBF / Iplex								
424	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								
425	Bolts	No WSA-PS Refer details on SEQ-WAT-1313-1				316 Stainless steel bolts					

	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														
426	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		DN63	PN16 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					
427			Philmac / Philmac & Vinidex											
428			Plasson											
429			Talbot				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				
430			Alprene											
431			Iplex											
432			Viadux											
433			Hydroflow / SAB S.p.A	SAB Black Nut Blueseal			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP					
434	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	Comply with AS4129, PN16, Electrofusion fittings to be long type. Stub flanges only to be used for sizes DN450 and larger	Accepted for DN63 and DN110	Accepted for DN63 and DN110	Accepted for DN63 and DN110	Flanged tees and flanged saddles are not accepted by SP	Flanged tees and flanged saddles are not accepted by SP			
435			Georg Fischer	ELGEF Plus Draw - Lock										
436			Friatec / Vinidex	Frialen	DN250-560 with branch DN32-90		Use is subject to acceptance by SP	Accepted for DN63 and DN110						
437			Agru	Agru	Coupler up to DN630									
438			Fusion Group / FusionPlast	Fusamatic	Up to DN630		Use is subject to acceptance by SP	Accepted for DN63 and DN110						
439			NUPIGECO	Elofit	DN20 to DN710		Accepted for DN63 and DN110	Use is subject to acceptance by SP						
440			Hydroflow / Plastitalia S.p.A	PLAST	Up to DN630									
441			Mako	Mako	Up to DN630		Use is subject to acceptance by SP					Use is subject to acceptance by SP	Use is subject to acceptance by SP	Only butt welded spigot fittings accepted
442	Simona / Plasson	Simona	Up to DN500	Seamless sweep bends not accepted	Seamless sweep bends not accepted									
443	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	Agru	Agru	Up to Dn630	Comply with AS4129, PN16, Electrofusion fittings to be long type. Stub flanges only to be used sizes DN450 and larger.	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	Use is subject to acceptance by SP				
444	PE fittings - Fabricated	216 and AS/NZS4129 4.1 - PN16 minimum 4.2 – Electrofusion or butt welding Including reducers, flanges, end caps, reducing tees and sweep bends	Adroit	Adroit		Butt Welded Fittings	Accepted 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				
445	Full face PE flanges (for reticulation sizes)	208 DN63 and larger 2.(a) - AS/NZS4129 or EN 12201, EN 13244 or EN 14525 acceptable Certification 4.1 - PN16 minimum 4.2 - Electrofusion or Butt Weld 4.3 - Full Face Flange Adaptor with SS316 backing ring 4.4 - AS 4087 "Figure" compatibility for mating flange 4.5 - Refer "Flange Gaskets and 'O' Rings" above	Simona / Plasson	Simona		DN90 riser with slotted flanges suit both DN80 & DN100 flanged hydrants to WSAA 98/50 Full face full bore connections Metal insert in the flange, backing rings not required	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP			
446			Plasson		DN80 / DN100						Use of stub flanges is subject to acceptance by SP			
447			Iplex		Up to DN355									
448			Friatec / Vinidex	Frialen	Up to DN180					Use is subject to acceptance by SP	Use is subject to acceptance by SP			
449		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	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use of stub flanges is subject to acceptance by SP			
450	DI Restraint fittings (for PE) - couplings, flange adaptors, tees, bends, end caps	245 Joining to PE Pipe only 2.(a) - EN 12201, EN 13244 or EN 14525 acceptable Certification 2.(b) - Plastic fittings not permitted 4.1 - PN16 4.2 - SBR & EPDM seal options with AS 4087 "Figure" compatibility for mating flange with WSA PS 312 gasket	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	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.			
451			+GF+	Multi/Joint 3000	Up to DN355									
452			AVK	Supa Plus	Up to DN315									
453			Viking Johnson / Philmac	AquaFast AquaGrip	Up to DN630		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		
454			Daemco	Xcel Restrained Coupling and Flange Adaptor	DN63 to DN315 for Coupling and DN63 to DN200 for Flange Adaptor									
455	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					
456			Kingston Bridge / Iplex											
457	Air valves	265 Appendix B AS 4956 Size - DN20 and Larger Class - PN16 Type of Port - Full and Reduced Port Type of Valve - As per Design Hydraulic Data - As per Design Materials - DN20 and DN25 permitted with Plastic body. All other sizes End Connections - BSP Threaded or AS 4087 Flange with "Figure" compatibility to mating Flange	ARI Flow control		DN50-DN200	PN16, Double Orifice as required, Thermal bonded polymeric coating	DN40 and DN50 BSP threaded to have Brass base	DN40 and DN50 BSP threaded to have Brass base.	DN40 and DN50 BSP threaded to have Brass base.	Use is subject to acceptance by SP				
458			Bermad											
459			Vent-O-Mat											
460			AVFI	DAV-MH										
461			ISCO	Vent Master PX										
462	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 Valvec	Valmatic Swing-flex	DN50 - DN600	Min. PN16, Thermal bonded polymeric coating	NOT ACCEPTED BY SP	Only use valves with capacity for lever arm to open and close the valve AVK and Dobbie Dico are acceptable CHALLENGER and other valves without lever arm NOT ACCEPTED BY SP	Use is subject to acceptance by SP		NOT ACCEPTED BY SP			
463			Dobbie Dico		DN80-DN900									
464			AVK	AVK Swing Check Valve 41/25	DN50									
465			AVK	AVK Swing Check Valve 41/8X	DN80-DN300									
466			Challenger Valves	Challenger - RSSC	DN80-DN375									
467			AVFI Pty Ltd	AVFI - RSFC	DN50-DN300		NOT ACCEPTED BY SP					Use is subject to acceptance by SP		
467														

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						May 2018	ACCEPTED CIVIL PRODUCTS AND MATERIALS				
	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
468	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 i) 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
469			Dobbie Dico	Dobbie Dico	DN80-DN900						
470			AVK	AVK Swing Check Valve 41/25	DN50						
471			AVK	AVK Swing Check Valve 41/8X	DN80-DN300						
472			Challenger Valves	Challenger - RSSC	DN80-DN375						
473			AVFI Pty Ltd	AVFI - RSFC	DN50-DN300					Use is subject to acceptance by SP	
474	Pressure reducing valves	268 See Appendix B of AS5081:2008	Bermad Water Technologies	Bermad	DN40 - DN900	Min PN16, Thermal bonded polymeric coating	Dorot 300 Series for Pressure Reducing Valve and for associated Pressure Relief Valve (Dump Valve) Dorot 200 Series or Bermad IR-43Q Valve	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP (In PRV installations where upstream pressures can be within 50 kPa of the required downstream pressure, Plasson C valves are preferred).
475			Singer / HMA Valveco	Singer							
476			Plasson Australia Pty Ltd	Plasson C-Valve							
477			Dorot Australia Pty Ltd	Dorot 300 Series							
478			Cla-Val Pacific / Challenger	Cla-Val	DN25-DN1200						
479	Pressure sustaining valves and altitude valves	268 See Appendix B of AS5081:2008	Bermad Water Technologies	Bermad	DN 40 - DN900	Min PN16, Thermal bonded polymeric coating	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
480			Singer / HMA Valveco	Singer							
481			Dorot Australia Pty Ltd	Dorot 300 Series	DN25-DN1200 (Sustaining)						
482			Cla-Val Pacific / Challenger	Cla-Val	DN-80-DN1200 (Altitude)						
483	PE Flex Restraint Fitting (used as puddle flange)		+GF+		Up to DN1600	E-F type follow manufacturer's requirements.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
484			Plasson		Fits DN160 to DN1600 PE Pipe	PE100/ PE4710 resin				Use is subject to acceptance by SP	
485	Dismantling joints for Flange Pipe and Fittings	201 4.1 - FI-FI for DJ & FI/Sp for UniFlange 4.2 - Thrust type and non-thrust type minimum PN16 4.3 - Thrust Restraint by Fitting 4.4 - SBR & EPDM	Viadux			Thrust restraint type and non-thrust type are Flanged to AS4087 PN16. SS316 bolts, nuts and washers. Larger sizes of UniFlange shall be assessed for available Fitting PN vs Pipeline Test Head.	For Mains only, restrained type only	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Uni-flange to be used within pit or aboveground locations only
486			Viking Johnson				For Meter Assemblies only, restrained type only				
487			Valveco	Uni-Flange Adaptor	DN50-DN500		Use is limited - refer to SP for advice				
488			Hygrade Water	Pipemate	DN80-DN900		For Meter Assemblies only, restrained type only				
489			AVFI	AFD10 Series	DN80-DN1200		For Mains only, restrained type only				
490			AVFI	AFD20 Series	DN80-DN1200		For Meter Assemblies only, restrained type only	For Meter Assemblies only, restrained type only			
491	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
492			Siemens	Siemens				Use is subject to acceptance by SP		NOT ACCEPTED BY SP	Use is subject to acceptance by SP
493			E & H	E & H				E & H 53W		E & H Promag W400	Use is subject to acceptance by SP
494			Emerson	Emerson				Use is subject to acceptance by SP		NOT ACCEPTED BY SP	

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						May 2018	ACCEPTED CIVIL PRODUCTS AND MATERIALS										
	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						
495	Category: WATER SERVICES																
496	Tapping bands for DI & PVC pipes	310 4.1 - DN100 to DN300 4.2 - Without Electrical Isolation 4.3 - Female Rp thread to AS ISO 7.1	Viadux			Gunmetal - Positive stops			SP USE ONLY	RMC tapping band also accepted on AC pipe	SP USE ONLY						
497			Gatic / Milne														
498			RMC			Positive stops, coloured blue WSAA Appraisal PA10/18	NOT ACCEPTED BY SP										
499			4N Products & Stockbrands	4N	DN100, 150, 200												
500	Tapping bands for PE - mechanical	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	Gatic / Milne		DN63-DN315	Gunmetal - Positive stops Only for where E-F saddles are not practicable	NOT ACCEPTED BY SP		SP USE ONLY		NOT ACCEPTED BY SP						
501			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											
502			Hawle / Hygrade Water	Haku	DN63 - DN315	Ductile iron lower half	Use is subject to acceptance by SP				NOT ACCEPTED BY SP						
503			Hawle / Hygrade Water	Haku	DN250 - DN630	Stainless steel strap lower half											
504	Tapping saddle for PE - electrofusion	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	Plasson		DN63, 90, 125 & 180	Comply with AS4129 PN16	Accepted for DN63 and DN110	SP USE ONLY	Accepted for DN63 and DN110								
505			George Fischer				Use is subject to acceptance by SP			Flanged saddles are not accepted by SP	Flanged saddles are not accepted by SP						
506			Friatec / Vinidex	Frialen													
507			Fusion Group / FusionPlast	Fusamatic	Up to DN355		Accepted for DN63 and DN110			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP				
508			Hydroflow	Plastitalia	Up to DN315		Accepted for DN63 and DN110	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP						
509	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	Agru	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	Use is subject to acceptance by SP						
510	Ferrules - TPFNR Bonnet Ferrule Cocks	No WSA-PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS 3688. 2 - PN16 with ability for under pressure tapping 3 - Male R thread to AS ISO 7.1 4 - Outlet fitting PE to WSA PS 207 or Copper to WSA PS 214 5 - DN50 to include 90 degree bend with union connection to AS3688 at outlet	Gatic / Milne			Dezincification resistant material and comply with AS/NZS 3688			SP USE ONLY								
511			Elster														
512			RMC														
513	Ball valves - Water Service	274 4.1 - PN16 minimum 4.2 - Plastic not permitted, Body and Handle to be DR copper alloy 4.3 - By accepted product 4.4 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 or PE Compression 4.5 - 90 Degree closure with 38 mm handle for maintap and 50 mm handle for meter. Meter ball valve with Locking open/close function 4.6 - Water Supply Property Service	Gatic / Milne			Dezincification resistant material and comply with AS/NZS 3688	Accepted for DN20 & DN25 Ball Valves with integral PE connections shall have a Copper Alloy body and a Copper Alloy compression nut for the pipe connection	Accepted for DN20 and DN25 at meter end of services	Accepted for DN20 & DN25		Ball valves must be capable of being locked by the customer with their own padlock.						
514			Elster					Use is subject to acceptance by SP									
515			RMC														
516			Zetco TOF					Accepted for DN20 and DN25 at meter end of services									
517			Cimberio / Strongcast	Strongcast													
518	Austworld	LOGI VALVE															
519	Union stopcock	No WSA-PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS 3688. 2 - PN 16 3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4 - Watermark acceptance	Gatic / Milne			25 mm Dezincification resistant material and comply with AS/NZS 3688	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP								
520			Elster														
521			RMC														
522	Slip Coupling	No WSA-PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3565.1, AS 3718 and AS 3688. 2 - PN 16 3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4 - Watermark acceptance 5 - Coupling to have 5mm to 20mm movement with locking nut	Elster		DN20 and DN25	Dezincification resistant material and comply with AS/NZS 3688 Shall have a locking nut and a metallic stopper to prevent moving apart or kinking between the moving parts	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP						
523			All Valve Industries		DN20												
524			RMC														
525			Strongcast														
526			Austworld				Both configurations of individual and combined with ball valves are accepted										
527	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 4.4 - Flange not used 4.5 - SBR & EPDM	Plasson			PE electro-fusion to BSP connections Metal male fittings connecting to plastic female fittings is not accepted				Use is subject to acceptance by SP	Push fitting not accepted by SP						
528			+GF+														
529			Friatec / Vinidex														

	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											
530	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 PN16 Push fit type is not accepted Metal male fittings connecting to plastic female fittings is not accepted.	Only fittings with a Copper Alloy body and a Copper Alloy compression nut are approved for use	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
531			Philmac / Philmac & Vinidex								
532			Plasson								
533			Elster								
534			Zetco TOF								
535			Talbot								
536			Alprene								
537			Iplex								
538			Viadux								
539			NUPIGECO	Elopress							
540			Austworld	Metforge	DN25 & DN 32					PE pipe stands not accepted by SP	Use is subject to acceptance by SP
541			Hydroflow / SAB S.p.A	SAB Black Nut Blueseal	DN25 to DN63			Use Is subject to acceptance by SP	Use Is subject to acceptance by SP	Use Is subject to acceptance by SP	
542	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	Horizontal orientation only. Not permitted to be used for Hard Wired AMR systems utilising Reed Switches. Not to be used for sub-meters. NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Only accepted for above ground installation	
543			Elster	V200							
544			Itron	TD8							
545			RMC	WM273MRP multijet							
546			RMC	WM281MRP multijet							
547			GVT	TPWM							
548	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	Horizontal orientation only. Not permitted to be used for Hard Wired AMR systems utilising Reed Switches. Not to be used for sub-meters.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Only accepted for above ground installation	
549			Elster	V200							
550			Itron	TD8							
			RMC	WM271MRP multijet							
551											
552	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		
553			Elster	V200							
554			Itron	TD8							
555			RMC	MRP							
556	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	
557			Itron	Flostar M							
558	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	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 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	
559			Elster	H5000							
560			Arad / RMC	Woltman Silver Turbo							
561			Itron	Flostar M							
562			Itron	Woltex							
563			Sensus	Meistream							
564	Inline Strainer	No WSA-PS	Elster	Kent H4010 Strainer	Up to DN150	PN16 F-FI Basket Type	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Only Flat-top accepted	
565			Hydromet		Up to DN200						
566			Virginia Metals		Up to DN200						
567	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	Use is subject to acceptance by SP
568			Siemens Eletromagnetic	Siemens				Use is subject to acceptance by SP		Siemens Mag 8000 Advanced	Use is subject to acceptance by SP
569			Siemens Ultrasonic	Siemens				Use is subject to acceptance by SP		NOT ACCEPTED BY SP	Use is subject to acceptance by SP
570			E & H Electromagnetic	E & H				E & H Promag 53W		Use is subject to acceptance by SP	Use is subject to acceptance by SP
571			E & H Ultrasonic	E & H				Use is subject to acceptance by SP		Use is subject to acceptance by SP	Use is subject to acceptance by SP
572			Emerson	Emerson				Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
573			ABB	ABB				Use is subject to acceptance by SP		NOT ACCEPTED BY SP	Water master
574	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. NOT ACCEPTED BY SP			NOT ACCEPTED BY SP	
575			Epitomy	Epitomy							
576			Utility Technology	Utility Technology							
577			Halytech	Spider							
578			Ausmeter	Ausmeter							
579			Itron	Everblu							
580			SUMS	Vivid Multi Logger							
581	Meter boxes	No WSA-PS 1 - Lids Virgin HDPE with Box Virgin and/or regrind 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	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
582			Everhard Industries		492L * 271W * 316D						
583			Draper		440L * 275W * 280D						
584			Strongcast		427L * 267W * 316D						

	A	B	C	D	E	F	G	H	I	J	K	
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	The City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater	
585	Single check detector check valves	No WSA-PS 1 - Single Check valve to AS/NZS 2845.1 2 - Fitted with compliant meters as per above	Pentair/Viadux	VALVCHEQ	DN100 & DN150	Model SC03. Flanged connection & spring set to 50 kPa	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Fitted with top accessible (basket type) inline strainer		
586	Double check valve (DCV), Double check detector assembly (DCDA)	No WSA-PS AS/NZS 2845	Pentair/Viadux	VALVCHEQ	DN40, 50, 100 & 150		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
587			Bermad	Cia-Val								
588			Hydroflow Distributors	Watts							Use is subject to acceptance by SP	
589	Pre-assembled dual meter boxes	No WSA-PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Elster		DN20	Drinking & Drinking or Drinking & Non-drinking Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Install pre-assembled dual boxes as per SEQ-WAT-1106 set as well	Subject to Approval of SP	Install approved pre-assembled boxes as per SP requirements	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	
590			Tellam						Use is subject to acceptance by SP			
591			RMC	KIT235 WMKIT235								
592	Pre-assembled single meter boxes	No WSA-PS 1- approved Supplier Assemblies as per SEQ-SP requirements	Strongcast	SCMBA20	DN20	Drinking Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Install pre-assembled single boxes as per SEQ-WAT-1106 set as well	Install approved pre-assembled boxes as per SEQ-WAT-1110 set	Install approved pre-assembled boxes as per SP requirements	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	
593			Elster						V200 meter only. No slip coupling			
594			Tellam						Use is subject to acceptance by SP			
595			RMC	KIT236 WMKIT236								
596	Sub-meter assemblies	No WSA-PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Elster	46492-00	DN25	Drinking or Non-drinking Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy For wall bracket assemblies the wall bracket shall be stainless steel rigid type	Only accepted with the use of approved slip couplings	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Only accepted with no slip coupling	Slip Coupling not accepted	
597			Elster	46491-00			Use is subject to acceptance by SP		Install approved sub-meter assemblies as per SP requirements			
598			Tellam		Only accepted with the use of approved slip couplings		Install as per CoGC Sub-Meter Guideline		Use is subject to acceptance by SP			Use is subject to acceptance by SP
599			All Valve	SMA20M	Only accepted with the use of approved slip couplings			Use is subject to acceptance by SP	Install approved sub-meter assemblies as per SP requirements	NOT ACCEPTED BY SP		
600			Strongcast	SCMLIM20	Use is subject to acceptance by SP		Use is subject to acceptance by SP					
601			Austworld	SMK	Only accepted with the use of approved slip couplings		Use is subject to acceptance by SP					
602			RMC	KIT227	Use is subject to acceptance by SP							
603			KIT227Q	Use is subject to acceptance by SP								
604	Dual Check valves for Meter assemblies DN40 and Larger	No WSA-PS 1 - Certified to AS/NZS 2845.1 2 - Non-Testable 3 - PN16 and Flanged to AS4087 Figure B5 4 - Ductile Iron body with AS4158 coating and lining or SS316 body or SS304 body if SS316 unavailable	Pentair/Viadux	VALVCHEQ		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Alternatively figure DC03 double check valves are acceptable	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
605			Hydroflow Distributors	Watts			Use is subject to acceptance by SP				Use is subject to acceptance by SP	
606	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	
607			RMC									
608			Pentair/Viadux	RP03								
609			Hydroflow Distributors	Watts								Use is subject to acceptance by SP
610	Pressure Limiting Valve for Water Services	No WSA-PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS 3688. 2 - PN 16 3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4 - Watermark acceptance 5 – Set point 50 m	RMC		DN15 – DN50	Dezincification resistant material and comply with AS/NZS 3688 Stainless Steel seat Not buried	Not used - Private Plumbing facility	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Not used - Private Plumbing facility		
611			NEFA									
612			Hydroflow Distributors	Watts							Use is subject to acceptance by SP	

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						May 2018	ACCEPTED CIVIL PRODUCTS AND MATERIALS				
	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
613	Category: WATER SUPPLY MISCELLANEOUS ITEMS										
614	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								
615			Tapex								
616			LWG Zurn								
617			Rain Harvesting	421			Use is subject to acceptance by SP				
618	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					
619	Loose PE sleeving to DI pipe	320	Viadux	BLUEBOSS blue		Mandatory sleeving to all DI pipe					
620			Crevet			Colours are Blue for Drinking Water and Purple for Non Drinking Water to POP203					
621	PVC - M conduits	209 4.1 - PN12 4.2 - Water Service Conduit 4.3 - Series 1 SCJ 4.4 - White for Water Conduit 4.5 - SCJ only	Vinidex	Hydro S1		PN12 Series 1		LCC also accepts 100 dia uPVC PN9 Series 1			UW requires uPVC PN9 series 1 with solvent weld joint- Refer drawing SEQ-WAT-1108-1.
622			Iplex								
623			Viadux								
624	Embedment material - crushed rock	351 4.1 - Single sized. 4.2 - Nominal 5 or 7 mm									
625	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
626	Bedding sand	AS/NZS 2566.2 Table G3 for sand.					Main pipe use is subject to acceptance by SP Service pipe use mandatory	Main pipe use is subject to acceptance by SP Service pipe use mandatory	Main pipe use is subject to acceptance by SP Service pipe use mandatory		
627	Concrete	357 4.1 - N20 for Thrust Blocks and Unreinforced embedment. N25 for reinforced embedment 4.2 - Slumps as required for placement				Normal class					
628	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.
629	Casing Spacers	324 4.1 - Carrier pipes OD from 100mm to 1668mm 4.2 - Min space between carrier pipes and encasing pipes 50mm	kwik-ZIP	kwik-ZIP	HDX Series with Runner height of 38, 65, 90 and 125 mm	For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes					
630	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					
631	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
632	Camlock					S/Steel 316					Maximum DN100
633	Valve pit access cover and frame	290 4.1 – 600 x 900 mm (Min) 4.2 – solid top, Sealed Type 4.3 – 600 by 900 mm Clear Opening (Min.) 4.4 - Class B for non-trafficable areas, and Class D for trafficable areas 4.5 - Rocking of cover in frame not permitted 4.6 - Lifting Key as per Standard Drawings 4.7 - Markings to AS3996 Clause 1.6 (a) to (f). 4.8 – Hinge (Unitywater requires no Hinged access cover) 4.9 - Standard Packaging and Delivery 4.10 - QUU require QUU cast in as per Standard Drawings 4.11 - Standard Coating 4.12 - Bolt down requirement by design 4.13 – Weatherproof (sealed) Aluminium	McBerns (Aluminium)			Refer Standard Drawing SEQ-WAT-1308-1	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
634			Gatic								
635			Tellam								
636			Webforge								
637			Hygrade								
638			EJ								
639			Durham								
640	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
641	Protective external coating	No WSA Product Specification 4.1 Two component solvent free polyurethane 4.2 Suitable for provision of single coats >=0.6mm thick 4.3 Excellent stated resistance to Sulphuric Acid via Test results 4.4 Minimum 15 minute Pot Life at 20 degrees C 4.5 Light coloured 4.6 Applied to manufacturers requirements 4.7 Combined 10 year warranty from Applicator and Manufacturer	Steuler KCH	Oxydur PTB		Colour white to grey & heritage green	Use is subject to acceptance by SP External coatings at 0.3 mm thick via single coat. SP Approved Equivalents are the listed Internal coatings	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP	Use is subject to acceptance by SP (minimum 2.0 mm thickness)

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						May 2018	ACCEPTED CIVIL PRODUCTS AND MATERIALS				
	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
642	Category: EMERGENCY STORAGE CHAMBERS										
643	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
644			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
645			Humes		Conc. Pipe units (2.44 m modules)						
646			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	NOT ACCEPTED BY SP
647			Chemstore Group	Hydrosave	From 1.2 m to 3.5 m dia and 2.5 m to 20 m length	Fibreglass construction As per SEQ-SPS-1402-1					Use Accepted with condition of 30 Year Warranty & Providing access opening of larger size about 1200 mm opening
648			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					
649			Tank Solutions	Mullaly	1470mm to 3275mm in diameter 3.3m to 15m in 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
650			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