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1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater		
2	Notes: WSAA Product Specifications are available at https://www.wsaa.asn.au/shop/category/11 . 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. *Acceptance yet to be determined* Contact the service provider to determine if the use of this product is acceptable in the proposed circumstance. *Considered on case by case basis* Contact the service provider to determine if the use of this product is acceptable in the proposed circumstance. *SP USE ONLY* These products are approved for use by SEQ-SPs or their contractors only for maintenance/retrofitting purposes. *Flange* All flanges used for pressure systems shall be PN16 complying with AS4087 Fig B5 unless otherwise specified.												
3	Category: SEWERAGE PIPES AND FITTINGS - NON PRESSURE												
4	PVC-U pipe and fittings - DWV system	230 4.1 - Plain Wall 4.2 - Elastomeric Seal 4.3 - Stiffness as per 230.2.(c) or as required by SP 4.4 - SBR & EPDM 4.5 - Heavy Duty fittings accepted	Iplex	DWV PIPE	DN100 150 225 300 375	Plain wall only accepted	DN100 at SN10 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum	DN100 at SN10 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum	DN100 at SN10 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum	Use is subject to acceptance by SP	DN100 at SN10, DN150 and larger at SN8 and Fittings at SN8 minimum		
5			Vinidex	DWV SEWER									
6			Viadux	D-FLO									
7			Micron Pipelines	Micron Pipelines									
8			Pipemakers	Pipemakers									
9			Iplex	Restrain DWV	DN150 225 300 375	For use in trenchless applications only. Not suitable for pneumatic, concussive, pipe ramming or impact moling trenchless installation methods.	Use is subject to acceptance by SP	Considered on case by case basis	Considered on case by case basis	Considered on case by case basis	DN100 at SN10, DN150 and larger at SN8 and Fittings at SN8 minimum for use in trenchless applications only		
10	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 - SBR & EPDM	Iplex		DN150 225 300		Use is subject to acceptance by SP	Considered on case by case basis	Considered on case by case basis	NOT ACCEPTED BY SP	Mandatory for sewers deeper than 3 metres and for sewers with minimum cover All details to be confirmed with SP		
11			Vinidex										
12			Viadux										
13	DI pipe	202S 4.1 - PN35 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 - Polyurethane coating 4.6 - SBR, EPDM or NBR 4.7 - PE sleeving is required on all DI pipes unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	VonRoll / Reece	Ducpur/ Ecopur	DN80 - 700 (ISO Sizes)	Min 900 micron Polyurethane external coating Min 1300 micron Polyurethane internal lining	Detector Tape for ISO Pipe spirally wound along pipe and over PE sleeve.	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP			
14			200 4.1 - PN20 4.2 - Seal coating not required for sewage 4.3 - Polyurethane lining 4.4 - Zinc/Bitumen coating or Polyurethane coating 4.5 - Restrained Joints on Zinc/Bitumen coated pipe 4.6 - SBR, EPDM or NBR 4.7 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.8 - 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	Jindal SAW/Iplex		DN225 to DN750			NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	PN20 NOT ACCEPTED BY SP, PN35 Use is subject to acceptance by SP
15				Jindal SAW/Iplex	Jindal SAW	DN100 - 750	400g/m2 Zn/Al+100µm epoxy or min 900 micron Polyurethane external coating.				Use is subject to acceptance by SP	Use is subject to acceptance by SP	
16				Viadux	DIMAX/TYTON XCEED Z+	DN100 - 750	Min 1300 micron Polyurethane internal lining						
17				Viadux	DIMAX/TYTONXTREME Z+	DN100 - 750							
18				Jindal SAW/Iplex	Ironitite	DN100 - 750	CAC cement lining	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Considered on case by case basis	Accepted in applications where DI pipe is specified e.g. building over sewer applications	NOT ACCEPTED BY SP	
19				Saint-Gobain	Integral Zinalium	DN100 - 750							
20			Vinidex	ZAP-HAC	DN100 - 750							Use is subject to acceptance by SP	
21			Steel pipe	203 4.1 - By design and PN16 min 4.2 - SEQ Code nominal DN's 4.3 - Seal coat not required for sewage 4.4 - As per SP requirement 4.5 - Joints by design to SEQ Code Standards 4.6 - Cathodic protection by design 4.7 - Standard pressure tests 4.8 - Fusion bonded polyethylene lining 4.9 - Zinc metal spray as per the specification 4.10 - SBR & EPDM 4.11 - Fusion bonded polyethylene coating minimum	Steel Mains	Sintapipe		Coating to be fusion bonded Polyethylene minimum. Lining to be fusion bonded polyethylene	Accepted OD610 or Larger	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	
22					Pipe Lining and Coating	Fusionkote	OD168 - 3624						
23	Steel fittings – bends, tees and reducers	204 4.1 - MPa 1.6 minimum 4.2 - DN by Design subject to SP approval 4.3 - Bends, tees, reducers and other types by design to SP approval 4.4 - Seal coat not required for sewage 4.5 - As per SP requirement 4.6 - Joint requirements by design 4.7 - Cathodic Protection by design 4.8 - Fusion bonded polyethylene lining 4.9 - Zinc metal spray as per the specification 4.10 - SBR & EPDM 4.11 - Fusion bonded polyethylene coating minimum	Steel Mains	Sintakote	OD114 – 2500			Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP			
24			Pipe Lining and Coating	Fusionkote	OD168 – 3624								
25	Polypropylene (PP) pipe	240 4.1 - As per standards 4.2 - SN10 4.3 - SBR & EPDM 4.4 - As per standards	Vinidex	SewerPRO	DN150 - 900	Accepted DN450 or larger				NOT ACCEPTED BY SP	SP USE ONLY		
26			Iplex	SewerMAX	DN225 - 600								
27			Enviropipes	EnviroPipe	DN150 - 900								

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1	PE pipe - NuSewers	242 4.1 - No alternative dimensions accepted 4.2 - PN8 SDR21 4.3 - Elastomeric seals not permitted 4.4 - External colour light grey solid or striped see POP203 4.5 - Internal colour white or light colour 4.6 - Pipe lengths for DN160 and larger with coils accepted for DN110 4.7 - PE100 only	Iplex	POLplex	DN110 160 250 315 400 500 630 800 1000 1200	For pipe bursting / cracking installations, minimum PE100 PN10 (SDR 17) to be used and installed with tracer wire, unless specified otherwise. Pipe wall thickness to be designed for installation forces. Butt welded joints are mandatory for pipe bursting / cracking installations.	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 or >DN315 is required in smaller quantities, other deviations and dark internal pipe colour may be used with prior SP approval	
28			Vinidex	Sewertech							
29			David Moss Corporation	DAMOS Hi-Vis							
30			Viadux								
31			Poly Pipe	SewerFlex	DN110 160 250 315						
32			Enviropipes	Enviropressure							
33			ACP	ACP							
34			Pipemakers	Pipemakers							
35			Clover	Clover / Rohr	DN110 160 250 315 400 500 630 800						
36			Acu-Tech	Acu-Tech							
37	PE fittings - Moulded	242 4.1 - No alternative dimensions accepted 4.2 - PN8 SDR21 4.3 - Elastomeric seals not permitted 4.4 - External colour light grey solid or striped with internal colour white or light colour, see POP203 4.5 - PE100 only	George Fischer / Iplex		Up to DN315	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.
38			Friatec / Vinidex								
39			Plasson	Lightfit							
40			Agri	AGRU							
41											
42			Fusion Group/FusionPlast	Fusamatic							
43			NUPIGECO	Elofit							
44			Hydroflow / Plastitalia S.p.A	PLAST							
45	David Moss Corporation	DAMOS	Up to DN1000								
46	Advanced Piping Systems / Plastitalia S.p.A	PLAS	Up to DN630								
47	Fusion QLD	Flo Right	Up to DN450								
48	PE fittings - Fabricated	242 4.1 - No alternative dimensions accepted 4.2 - PN8 SDR21 4.3 - Elastomeric seals not permitted 4.4 - External colour light grey solid or striped with internal colour white or light colour, see POP203 4.5 - PE100 only 4.6 - Fittings include: sweep bends, MH connectors, tee and bends for drop pipes and sweep junctions	Vinidex		DN110 - DN315	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	Use is subject to acceptance by SP
49			Iplex								
50			Smartstream								
51			Adroit	Adroit							
52			David Moss Corporation	DAMOS Hi-Vis Fittings							
53			Holman	Holtech							
54			Pipestar	Pipestar							
55			Allmach PFS Pty Ltd	Sewerstream							
56	PE Flex Restraint Fitting (used as puddle flange)	No WSAA PS	Georg Fischer	EF Flex Restraint	DN160 - DN1600	PE100 In accordance with manufacturer's requirements	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	
57			Plasson	Flex Restraint	DN160 - DN1600						
58	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	NOT ACCEPTED BY SP	Considered on case by case basis 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
59			Steinzeug Keramo	Keramo							
60			Naylor / Rocla	Denlok							
61	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	Only accepted where PVC MH inspection bends are not available			Use is subject to acceptance by SP	NOT ACCEPTED BY SP
62			Viadux								
63	PVC-U heavy duty maintenance hole inspection bends	230 4.1 - Plain wall 4.2 - RRJ 4.3 - Min SN10 for DN100 and SN8 for DN150 and larger 4.4 - NBR or SBR or EPDM 4.5 - Heavy duty fittings shall be used 4.6 - Two moulded pieces welded by factory 4.7 - Fibre reinforcement is not required	Plastec	Plastec	DN100 RRJ/Sp (#19712) DN150 RRJ/Sp (#19714) DN150 Sp/Sp (#20041)	SN rating (SN8 or SN10) and letters "Heavy Duty" (Super Duty) shall be imprinted on the surface of fittings. This fitting is to be used for maintenance hole internal drops. DN150 Sp/Sp (#20041) is to be used for retrofitting on AC sewers only.				Use is subject to acceptance by SP	Use is subject to acceptance by SP
64											
65	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 (shear banded coupling, aka Standard Coupling)	Up to DN600	Not to be used to connect to unrestrained PE Pipe. Fitting not designed to restrain thermal expansion/contraction forces of PE pipework.		SP USE ONLY		Not to be used for PE pipes where thermal expansion / contraction of pipework is likely to result in pull-out of the coupling	Use is subject to acceptance by SP
66			DEKS	DEKS shear banded coupling	DN100 to DN225						
67			Rehau	Awaduct Flex Connect	DN100 to DN 630						
68			VIP Polymers/ Jaybro Group	VIPSeal	DN100 to DN600					Not to be used for PE pipes where thermal expansion / contraction of pipework is likely to result in pull-out of the coupling	

SEWERAGE PIPES AND FITTINGS - NON PRESSURE

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69	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 4.8 - SS316 bolts, nuts and washers	Viadux	Gibault - Ezigib & Varigib		Long type. All DI fittings to be wrapped. DI must have thermal bonded polymeric coating							
70			Crevet	Gibault & Universal									
71			AVK	Gibault & Universal									
72				AVK Supa-Gib Couplings	Up to DN675								
73			Viking Johnson	MaxiFit & QuickFit									
74			Derwent Industries		DN100 - DN300								
75			DEKS	DEKS FLEXI-GIB	DN80 to DN600								
76			Daemco	Reinversal	Up to DN 600								
77	Clover Pipelines	Clover Connect VPC	DN100 to DN600										
78	Civil Pipes	CPS Uni-Gib	DN 80 - DN 300				Use is subject to acceptance by SP		Use is subject to acceptance by SP		Use is subject to acceptance by SP		
79	Pushfit Coupling, internal for Non-pressure Applications	250	Feroco / Flex-seal	ICON Pushfit	DN95 / DN100 / DN95-100 / DN95-150 / DN100-150 / DN150		Use is subject to acceptance by SP	NOT ACCEPTED BY SP	SP USE ONLY	Use is subject to acceptance by SP	SP USE ONLY		
80	316 Stainless Steel Sewer OB Junction Clamps	346 4.1 - Nominal size DN100 - DN450; Branch sizes DN100 - DN225	Derwent Industries	Derwent	DN100 - DN450 with branch sizes DN100/ DN150/DN225	For property connections on existing gravity sewer pipelines where type A or B connections are required. A rubber ring socket joint (RRJ) to be factory fitted to the glue in branch by Derwent to suit the SEQ Code requirements.		SP USE ONLY	Use is subject to acceptance by SP	Use is subject to acceptance by SP and not to be used on PVC-O or PE pipes	SP USE ONLY		
81	316 Stainless Steel Sleeve for repair	No WSA PS 4.1 - Compatible with all common drainage and sewer pipeline materials including PVC-U, PP, PE, GRP, VC, DI and concrete. 4.2 - Compliance with ASTM F3110-14	Smart Lock	Smart Lock	DN100 - DN750	Installation must be done by licenced installers who are certified by the supplier	SP USE ONLY	SP USE ONLY	SP USE ONLY	SP USE ONLY	SP USE ONLY		
82	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		
83			Humes										
84	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		
85			Global Pipe	Al Watani								Use is subject to acceptance by SP Coupling Grade 316 Stainless Steel (min.)	
86	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	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
87	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								
88			Global Pipe	Fiberstrong	DN300 - DN4000	Sewer Pipe	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
89			Superlit / Clover Pipelines	Superlit	DN300 - DN3000								
90	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								
91			Empire Infrastructure	BOSSPIPE	DN300 - DN2000	Jacking pipes	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP Only use GRP coupling for acid sulphate soil and saline environment		
92			Superlit / Clover Pipelines	Superlit	DN400 - DN1400								
93	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								
94			Superlit / Clover Pipelines	Superlit	DN300 - DN3000	Jacking pipes	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP Only use GRP coupling for acid sulphate soil and saline environment		
95	Non-return valves	280 4.1 - Solvent Cement 4.2 - SN10 4.3 - No alternate elastomeric materials for joint seals accepted	Iplex	Flap valve	DN50 to DN300		Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP			
96				Reflux valve fabricated	DN100								
97			Vinidex	Flap valve	DN50 to DN100								
98			Hygrade Water	No WSA PS	HMA Flow & Industrial - Valveco	WaStop Non-return valves	DN75 to DN1800	All DI fittings to be wrapped	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
99						Flotech Controls	Red valve - Tideflex check valves						
100	Fluid Control	Proflex Rubber Check Valve	DN 25 to DN 2500										
101	Prime Composites	Ring Mount Floodgate Wall Mount Floodgate Scour Valve Floodgate		DN100 to DN900			Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined			

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103	Knife gate valve - Stainless Steel	266 4.1 - PN10 4.2 - Wafer or Lugged 4.3 - Clockwise closing, rising spindle	Emerson	Keystone	Up to DN600	Body stainless steel Grade 316. Gate stainless steel Grade 316. Gland Follower stainless steel Grade 304 or 316. Spindle stainless steel grade 304 or 316. Yoke/Pillar/Bridge stainless steel Grade 304 or 316. Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel Grade 316.	Use is subject to acceptance by SP		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Subject to meeting the corrosion resistance requirements in Column F
104			Challenger	Challenger							
105			AVFI	AVFI							
106			HMA Valveco	HMA Valveco							
107			AVK (Note: This is the only vendor complying with 316 SS throughout)	Orbinox							
108	Bonnetted knife gate valve - Stainless Steel	266 4.1 - PN10 4.2 - Wafer or Lugged 4.3 - Clockwise closing, rising spindle			Up to DN600	Body stainless steel Grade 316. Bonnet 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.	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
109	Knife gate valve/penstock - Fabricated Stainless Steel	No WSAA PS 4.1 - PN1 4.2 - Flange mounted frame to suit AS 4087 PN16 flange drilling pattern, or wall mounted. Fasteners on inlet side only. 4.3 - Clockwise closing, rising spindle mounted within non-rising torque tube. Lift nut mounted on thrust tube above top water level. (Note: This is a low pressure type gate valve / penstock, suitable only for sewer isolation etc.)	Australian Water Engineers	Australian Water Engineers	DN100 to DN1200	Frame, Gate, Stem, Torque Tube, Thrust Tube: stainless steel Grade 316, electropolished. Seat UHMWPE. Lift Nut aluminium bronze. All fasteners stainless steel Grade 316.	Use is subject to acceptance by SP. Fabricated knife gate valve / penstock to comply with requirements of CoGC Supplementary mechanical & Electrical Specification	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	Fabricated knife gate valve / penstock to comply with requirements of Unitywater Pr9693 – Specification for Mechanical Installation
110			Hygrade Water	Atec GmbH	DN100 to DN2800					Use is subject to acceptance by SP	
111	Knife gate valve - Ductile iron body	266 4.1 - PN10 4.2 - Wafer or Lugged 4.3 - Clockwise closing, rising spindle	Emerson	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	
112			Challenger	Challenger							
113			AVFI	AVFI							
114			AVK	CYL							

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115	Category: SEWERAGE PIPES AND FITTINGS - PRESSURE																	
116	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	RHINO	DN100 150 200 225 250 300 & 375					Use is subject to acceptance by SP	NOT ACCEPTED BY SP							
117			Vinidex	Hydro														
118			Viadux	Plaspipe														
119			Micron Pipelines	Micron Pipelines														
120			Pipemakers	Pipemakers Enviromain														
121	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	NOT ACCEPTED BY SP							
122			Vinidex	Supermain														
123			Micron Pipelines	Micron Pipelines														
124			Pipemakers	Alphamain														
125				TOM®														
126	DI pipe	200 and WSAA TN6 4.1 - All Pressure Classes - see Column F 4.2 - Seal Coat not required for Sewerage 4.3 - Internal Linings - see Columns F-K 4.4 - All pipes to be polyurethane or Zn-Al alloy and epoxy coated. 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 unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	Jindal SAW / Iplex		DN250 to DN750 (not 225)	PN20				NOT ACCEPTED BY SP	NOT ACCEPTED BY SP							
127			Vinidex	ZAP-GP														
128			Clover Pipelines	Clover/Xinxing														
129			Vinidex	ZAP-HAC		PN20, CAC lining for corrosive flows	Up to DN 750 (not 225)	PN35 and Flange Class, GP or SR lining 400g/m2 Zn/Al+100µm epoxy or min 900 micron Polyurethane external coating.				NOT ACCEPTED BY SP	NOT ACCEPTED BY SP					
130			Clover Pipelines	Clover/Xinxing														
131			Vinidex	ZAP-GP														
132			Jindal SAW / Iplex	Ironitite (XINAL400+ coating)														
133			Jindal SAW / Iplex	Ironitite (XINAL400+ coating)														
134			Vinidex	ZAP-HAC														
135			Saint-Gobain	DIMAX/TYTONXTREME Z+														
136			Viadux	DIMAX/TYTONXTREME Z+														
137			Clover Pipelines	Clover/Xinxing														
138			Clover Pipelines	Clover/Samsun														
139			Reece/Viadux	DIMAX/TYTON XCEED Z+														
140			Jindal SAW / Iplex	Jindal SAW														
141	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 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.	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
142	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 & Sureflow	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												Use is subject to acceptance by SP
143			Crevet / Iplex	Crevet														
144			Vinidex	Superlink														
145			Derwent															
146			Gillies / Hygrade															
147			Himgiri Castings/Galvin Engineering / CivilPipes	Galvin														
148			Dobbie Dico	Dobbie														
149			Mallet	Mallet														
150			Clover Pipelines	Clover														
151			Daemco	Daemco														
152	Reece	DIMAX																

A	B	C	D	E	F	G	H	I	J	K	L	
	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
153	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.)	
154	316 SS repair and flanged off-take clamps	313 4.1 - Type R, Type F or Type R and Type F by SP approval 4.2 - Pipe DN by SP approval 4.3 - Off-take DN by SP 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.	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	Only repair clamps accepted	Type R accepted only In acid sulphate soils the clamp must be Densowrapped.	
155			Viadux	Wang	DN100 to DN300							
156			Cascade Control	Rapid Clamps	DN40 to DN350							
157			Daemco	Norma Connect	DN80 to DN300							
158			AVK	AVK Series 748	Up to DN300							
159			Derwent			Only Type R repair clamps accepted.				Only Type R repair Clamps accepted		
160	Flange (DI) off-take clamps for DIOD pipes	313 4.1 - Type R, Type F or Type R and Type F by SP approval 4.2 - Pipe DN by SP approval 4.3 - Off-take DN by approval 4.4 - Min. PN16	Derwent	Uniclamp	DN100 & DN150	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.	Type R and Type F accepted Accepted to be used where under pressure connection is approved by SP		Use is subject to acceptance by SP	Only DN100 flange offtake accepted		
161	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 4.8 - SS316 bolts, nuts and washers shall be used	Nova Siria/Hygrade Water	Duofit	DN 300 - DN2000		Use is subject to acceptance by SP	Considered on case by case basis	SP USE ONLY	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
162			Hygrade Water Australia	cQuick Encapsulation Repair collar	DN 80 - DN200							
163			AVK	Series 208 Encapsulation Repair collar	DN 80 - DN200							
164	Flange (DI) off-take clamps	310 4.1 - Pipe DN63 and larger (see WSA PS 207) - Off-take ID 20 mm minimum 4.2 - With or without electrical insulation 4.3 - Female Rp thread to AS ISO 7.1	Hawle / Hygrade Water	Haku	DN125 to DN355	For use on PE pipe only. Installed and commissioned in accordance with manufacturers recommendations.	Accepted to be used where under pressure connection is approved by SP	Considered on case by case basis	Use is subject to acceptance by SP	Only accepted for use where welded joints are not practical and where under pressure connection is approved by SP		
165			Derwent	Uniclamp	DN125 and DN180							
166	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			Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
167			DEKS	DEKS shear banded coupling	DN100 to DN225							
168	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 4.8 - SS316 bolts, nuts and washers shall be used	Viadux	Gibault - Ezigib & Varigib	Up to DN675	Long type. All DI fittings to be wrapped. DI must have thermal bonded polymeric coating.			CLOVER GIBALT NOT ACCEPTED BY SP			
169			Crevet	Gibault & Universal								
170			AVK	Gibault & Universal								
171				AVK Supa-Gib Couplings								
172			Viking Johnson	MaxiFit, QuickFit								
173			Derwent Industries									DN100 to DN300
174			DEKS	DEKS FLEXI-GIB								DN80 to DN600
175			Daemco	Reinoversal								Up to DN 600
176	Clover Pipelines	Clover Connect VPC	DN100 to DN600									
177	Civil Pipes	CPS Uni-Gib	DN 80 - DN 300									
178	Stainless steel flexible couplings - Unrestrained	285 4.1 - Unrestrained for DI, AC, PVC, steel, GRP and concrete pipes 4.2 - PN16 min	Uniones Arpol SA / Global Pipe	ARPOL	DN150-DN1200	Arpol Instal for joining pipes and Arpol Rep for pipe repairs. Required torque as per manufacturer's requirement marked on each fitting		Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	

SEWERAGE PIPES AND FITTINGS - PRESSURE

A	B	C	D	E	F	G	H	I	J	K	L	
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
179	DI mechanical fittings - End Thrust Restraint (Gripper Type)	271 4.1 - PN16 4.2 - CI, DI, PE, SCL, AC 4.3 - Long Series 4.4 - Straight and Stepped and Flange Adaptor 4.5 - All DN range options 4.6 - Flange adaptors to be drilled as per AS/NZS 4087 Figure B5 4.7 - SBR & EPDM & Nitrile 4.8 - Use of pipe stiffener inserts for PE pipe as per fitting manufacturer's requirements 4.9 - All DI fittings to be wrapped with CI and DI systems 4.10 - Flange adaptors up to DN355 PE shall be full bore connection i.e. DN63 PE / DN50 FL, DN125 PE / DN100 FL, DN180 PE / DN150 FL, DN250 PE / DN200 FL, DN315 PE / DN250 FL and DN355 PE / DN300 FL	Hawle / Hygrade Water	Synoflex Restraint		Synoflex is manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DN may not suit the same pipe DN for some pipe materials and sizes (e.g. DN200 CIOD pipes). In this case a larger gripper socket DN may need to be used. Contractors need to check the suitable gripper socket DN for their pipes. Does not require pipe stiffener inserts to be installed for PN16 (SDR 11) PE100 pipe.				Only accepted for use where welded joints are not practical	The use of gripper type fittings on AC, DI and SCL pipe is subject to acceptance by SP	
180			Georg Fischer	Multijoint 3000 Plus Restraint	50NB - 300NB	Georg Fischer 3000 Plus is manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DN may not suit the same pipe DN for some pipe materials and sizes (e.g. DN200 CIOD pipes). In this case a larger gripper socket DN may need to be used. Contractors need to check the suitable gripper socket DN for their pipes. Requires pipe stiffener insert to be installed when connecting to PE or PVC pipe.			SP USE ONLY			
181			AVK / Fusion Plast Australia	Supa-Maxi		AVK Supa-Maxi is manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DN may not suit the same pipe DN for some pipe materials and sizes (e.g. DN200 CIOD pipes). In this case a larger gripper socket DN may need to be used. Contractors need to check the suitable gripper socket DN for their pipes. Requires pipe stiffener insert to be installed when connecting to PE or PVC pipe. The PE transition couplings rated PN10 are not accepted.			SP USE ONLY Not accepted for use on PVC and GRP pipes End cap shall be used with thrust block		Use is subject to acceptance by SP	The use of gripper type fittings on AC, DI and SCL pipe is subject to acceptance by SP
182			Nova Siria / Hygrade Water	Multigrip	DN350 - DN1400	Requires pipe stiffener insert to be installed when connecting to PN16 (SDR 11) PE100 pipe.	Use is subject to acceptance by SP		Considered on case by case basis			Use is subject to acceptance by SP
183			Viking Johnson	UltraGrip	DN100 - DN300						Only accepted where welded joints are not practical	Use is subject to acceptance by SP. Not approved for use in acid sulphate soils and saline coastal environments.
184			Hawle / Hygrade Water	System 2000	DN63-DN355	Does not require pipe stiffener inserts to be installed on PN16 (SDR 11) PE100 pipe.					Only accepted for use where welded joints are not practical	Use of Hawle System 2000 and AVK SupaPlus restrained couplings are subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.
185			AVK	Supa Plus Restraint		Requires pipe stiffener inserts to be installed						The use of gripper type fittings on AC, DI and SCL pipe is subject to acceptance by SP
186			Viking Johnson	Aquafast and Aquagrip Restraint	DN63 - DN315	Aquafast does not require pipe stiffener inserts to be installed on PN16 (SDR 11) PE100 pipe. Aquagrip Restraint coupling requires pipe stiffener inserts to be installed on PN16 (SDR 11) PE100 pipe.				SP USE ONLY	Use is subject to acceptance by SP	
187			Daemco	Xcel Restrained Coupling and Flange Adaptor	DN63 - DN315 for Coupling & DN63 - DN315 for Flange Adaptor	Does not require pipe stiffener inserts to be installed for PN16 (SDR 11) PE100 pipe.						Use of Daemco Xcel Restrained Couplings is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations
188			Victaulic Piping Products	Victaulic Restrained Couplings Style 905	Up to DN225	Does not require pipe stiffener inserts to be installed for PN16 (SDR 11) PE100 pipe.						
189	DI flanged telescopic flexible fitting	No WSA PS Aligned to WSA PS-201 and WSA PS-270 with Flanges to AS 4087 Figure B5 To comply with WSA PS-201S when published	Hawle / Hygrade Water	Vario	DN50 - DN200	All DI fittings to be wrapped	SP USE ONLY			SP USE ONLY		
190	Dismantling joints for Flange Pipe and Fittings	284 4.1 - No alternative material grades 4.2 - As per manufacturer's requirements 4.3 - Configuration: FI-FI for DJ & FI/Sp for UniFlange 4.4 - Fitting type: thrust type and non-thrust type 4.5 - Thrust Restraint by Fitting 4.6 - SBR & EPDM	Viadux			Thrust restraint type and non-thrust type are Flanged to AS4087 PN16.	Dismantling joints shall be restrained type only Use of uni-flange is subject to acceptance of SP					
191			Viking Johnson			SS316 bolts, nuts and washers.	NOT ACCEPTED BY SP					Uni-flange to be used within pit or aboveground locations only
192			HMA Group	Uni-Flange Adaptor	DN50-DN500	Larger sizes of UniFlange shall be assessed for available Fitting PN vs Pipeline Test Head.	Use is subject to acceptance by SP			Considered on case by case basis	Use is subject to acceptance by SP	
193			Hygrade Water	Pipemate	DN80-DN900	All DI fittings to be wrapped	NOT ACCEPTED BY SP					
194			AVFI	AFD10 Series	DN80-DN1200		Restrained type only		Restrained type only			
195	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	POLplex							PE is preferred pipe material Pressure Sewer/ Rising main pipes shall be black with cream stripes	
196			Vinidex	Sewertech								Vacuum Sewer pipes shall be solid cream (co-extruded with the pipe)
197			David Moss Corporation	DAMOS	DN40 50 63 90 125 180 250 315 355 450 560 630 800							NOT ACCEPTED BY SP
198			Poly Pipe	SewerFlex								
199			Enviropipes	Enviropressure								
200			Cromford	Identipipe								
201			ACP	ACP	DN40 50 63 90 125 180 250 315		For directional drilling installations, minimum SDR 9 (PN20 PE100) unless specified otherwise and install with tracer wire.		Considered on case by case basis			
202			ASA		DN40 50 63 90 125			NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		Use is subject to acceptance by SP	NOT ACCEPTED BY SP
203			Agro				Pipe wall thickness to be designed for installation forces.	Use is subject to acceptance by SP				
204			Pipemakers	Pipemakers			Butt welded joints are mandatory for HDD construction where continuous pipes on coil are not available					
205	Clover	Clover/Rohr	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800							PE is preferred pipe material - PE shall be used unless specific site conditions dictate otherwise.		
206	Acu-Tech	Acu-Tech										

A	B	C	D	E	F	G	H	I	J	K	L
	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
207	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. Butt welded joints are mandatory for HDD construction where continuous pipes on coil are not available.		Considered on case by case basis	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)
Acu-Tech			Acu-Tech	Use is subject to acceptance by SP							
David Moss Corporation			DAMOS	Use is subject to acceptance by SP							
208	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 & SS316 backing rings to AS/NZS 4087 Fig B5 or B7 4.5 - SBR & EPDM	Agru	Agruline	Up to DN630	Electrofusion fitting to be long type. Stub flange may only be used for DN450 and larger sizes	Sizes of DN630 and above which are machined fittings are subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	Accepted up to DN355	
209											
210	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 316 backing rings to AS/NZS 4087 Fig B5 or B7 4.5 - SBR & EPDM	George Fischer			Electrofusion fitting to be long type. Stub flange may only be used for DN450 and larger sizes.		Considered on case by case basis	Considered on case by case basis		
211			Friatec / Vinidex	Frialen	DN63XDN32 to DN350XDN90						
212			Plasson								
213			Agru	AGRU	Up to DN630						
214			Fusion Group / FusionPlast	Fusamatic	Up to DN630						
215			NUPIGECO	Elofit	DN20 to DN710						
216			Plastitalia S.p.A / Hydroflow	PLAST	Up to DN630						
217			Plastitalia S.p.A / Advanced Piping Systems	PLAS	Up to DN630						
218			Fox Fittings Sp. / Advanced Piping Systems	Fox	Up to DN630						
219			Simona / Plasson	Simona	Up to DN500						
220			Mako	Mako	Up to DN630						
221			David Moss Corporation	DAMOS	Up to DN1000						
222			Fusion QLD	Flo Right	Up to DN450						
223	Guangdon Liansu / Crew Pipelines	Lesso	DN63 - DN800								
224											
225	PE fittings- Fabricated	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 316 backing rings to AS/NZS 4087 Fig B5 or B7 4.5 - SBR & EPDM	Adroit	Adroit	Up to DN355	Butt Welded Fittings Stub flange may only be used for DN450 and larger sizes.		Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
226			Pipestar	Pipestar							Only sweep bends accepted.
227	PE Flex Restraint Fitting (used as puddle flange)	No WSAA PS 1 -PN16 minimum	Georg Fischer	EF Flex Restraint	DN180 – DN1600	PE100 In accordance with manufacturer's requirements		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
228			Plasson	Flex Restraint	DN180 – DN1600						
229	Full face PE flanges	208 (Moulded Fittings) 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		Metal insert in the flange, backing rings not required	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP
230			Plasson		DN80/DN100	Slotted flanges & backing rings suit both DN80 and DN100					Use of stub flanges is subject to acceptance by SP
231			Iplex		Up to DN355	Full bore connections					
232			Friatec / Vinidex	Frialen	Up to DN180	Metal insert in the flange, backing rings not required					Use is subject to acceptance by SP
233			Fusion Group / FusionPlast	Fusamatic	DN90 to DN 450						DN90 slotted flange is not accepted
234			David Moss Corporation	DAMOS	Up to DN1200						Use is subject to acceptance by SP
235			208 (Fabricated Fittings) 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	Rodney / Vinidex	Maxi Stub	Up to DN355					Full bore connection
236	Mechanical Restraining Flange for PE Pipe	No WSA PS 1 - PN16 Minimum 2 - SS316 bolts, nuts and washers shall be used	Derwent Industries	Derwent Industries	DN125 & DN180		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
237	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 - As per SP requirement 4.5 - Joint requirements by Design 4.6 - Cathodic Protection by design 4.7 - Standard pressure tests 4.8 - Fusion bonded polyethylene lining 4.9 - Zinc metal spray as per the specification 4.10 - SBR & EPDM 4.11 - Fusion bonded polyethylene coating minimum	Steel Mains	Sintapipe	DN324 - 2159	RRJ unless otherwise approved Coating to be fusion bonded polyethylene minimum. Lining to be fusion bonded polyethylene	Accepted OD610 or larger	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
238			Pipe Lining and Coating	Fusionkote	OD168 - 3624						

A	B	C	D	E	F	G	H	I	J	K	L	
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
238	Steel fittings – bends, tees and reducers	204 4.1 - MPa 1.6 minimum 4.2 - DN by Design subject to SP approval 4.3 - Bends, tees, reducers and other types by design to SP approval 4.4 - As per SP requirement 4.5 - Fusion bonded polyethylene coating minimum 4.6 - Joint requirements by design 4.7 - Cathodic Protection by design 4.8 - Fusion bonded polyethylene lining 4.9 - Zinc metal spray as per the specification	Steel Mains	Sintakote	OD114 - 2500			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
240			Pipe Lining and Coating	Fusionkote	OD168 - 3624							
241	Stainless Steel Pipe	No WSA PS 1 - WSAA Materials Fact Sheet No.2 Selection of Stainless Steels 2 - WSAA Materials Fact Sheet No.3 Fabricating Stainless Steels No WSA PS 1 - WSAA Materials Fact Sheet No.2 Selection of Stainless Steels for Use in the Water Industry. 2 - WSAA Materials Fact Sheet No.3 Stainless Steel Fabrication. 3 - WaterMark acceptance. 4 - ASSDA accredited fabricator.	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	
242			MM Kembla	KemPress	DN15 to DN100	Min. Grade 316 Min. PN16	Use is subject to acceptance by SP		Considered on case by case basis	Use is subject to acceptance by SP		
243	Stainless Steel Fittings	No WSA PS 1 - WaterMark acceptance.	MM Kembla	KemPress	DN15 to DN100	Min. Grade 316 Min. PN16	Use is subject to acceptance by SP		Considered on case by case basis	Use is subject to acceptance by SP		
244	Resilient seated gate valves, thermal bonded polymeric coating	260 4.1 - PN16 4.2 - FI-FI, Soc-Soc, Sp-Sp, FI-Soc, FI-Sp and FI-gripper socket end configurations accepted 4.3 - Integral By-pass on DN450 and larger (Not accepted by Unitywater and Urban Utilities) 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 4.10 - Stiffener inserts for PE pipe as per manufacturers requirements	AVK	Series 57 (light type only for DN100 & 150) Series 570 Series 55	Up to DN400 Up to DN600 DN450 to 600		DN600 and larger valves shall be DeZurik Eccentric Plug Valves					
245			Hawle	E2 E2 System 2000	DN100-200 DN50-300						Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.	
246			Hawle / Hygrade Water	E3 (FL-FL)	DN100-DN300					Use is subject to acceptance by SP		
247			Viadux	Series 500 Auslite II Auslite III	Up to DN600 DN100 - DN300 Up to DN 600							
248			Karon / Challenger	Karon (FL-FL light weight design) Karon (FL-FL integral bypass valves)	DN80 - DN600 DN80 - DN300 DN450 - DN600		Some valves may not need by-pass (check with SEQ SPs).	Use of Karon / Challenger (FL-FL light weight design) is subject to acceptance by SP	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is considered on case by case basis	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is considered on case by case basis	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP
249			AVFI		DN80 - DN600		All DI fittings to be wrapped				Use is subject to acceptance by SP	NOT ACCEPTED BY SP
250			Betta	BETTA	DN80 - DN600		All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted					
251			AAP Industries	Maxflo/appFLO	DN80 to DN300							
252			Derwent Industries	Derwent	DN80 - DN600				DN600 and larger valves shall be DeZurik Eccentric Plug Valves			
253			DAEMCO		DN80 to DN300 for Soc-Sp DN80 to DN375 for FL							
254	Reece	DIMAX	DN80 – DN600 (FI-FI) DN100 – DN300 (Soc-Soc) DN100 – DN300 (Sp-Sp)									
255	278 (RSGVs with PE tails) 4.1 - PN16 4.2 - Anti-Clockwise closing Configurations accepted 4.3 - No requirement for spindle cap colour 4.4 - Extension Spindle to WSA PS - 262 4.5 - Spindle Cap required	AVK	Series 36/80	Up to DN300		All valves shall be restrained. All DI fittings to be wrapped.						
256		Betta	Betta	DN100 & DN150								
257	281 (RSGVs with restrained/gripper ends) 4.1 - PN16 4.2 - Anti-Clockwise closing Configurations accepted 4.3 - No requirement for spindle cap colour 4.4 - Extension Spindle to WSA PS - 262 4.5 - Spindle Cap required 4.6 - SBR & EPDM 4.7 - Stiffener inserts for PE pipe as per manufacturers requirements 4.8 - Integral By-pass on DN450 and larger (Not accepted by Unitywater and Urban Utilities)	AVK	Series 01/71	Up to DN300								
258		Hawle	E2 System 2000	DN50 - DN300								
259		Betta	BETTA	DN100 - DN300		All valves shall be restrained. All DI fittings to be wrapped.					Use of gripper type RSGVs is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations	
260		Derwent Industries	Derwent	DN100 - DN150								
261	DAEMCO		DN100 - DN150									
262	260 4.1 - PN25 4.2 - FI-FI 4.3 - Integral By-pass on DN450 and larger (Not accepted by Unitywater and Urban Utilities) 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	Reece	DIMAX	DN80 – DN300 (FI-FI)		PN25 Some valves may not need by-pass (check with SEQ SPs). All DI fittings to be wrapped All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted	Use is subject to acceptance by SP			Use is subject to acceptance by SP		
263		283 1 - PN16 resilient seated gate valves for under pressure line stopping application for pressure sewerage	Daepoong/ CNS Engineering	S- Gate Valve	DN100 - DN450		Valve for Underpressure Line Stopping, suitable for rigid pipes with CIOD compatibility, i.e. Ductile Iron, Cast Iron and Asbestos Cement	SP USE ONLY	SP USE ONLY	SP USE ONLY	SP USE ONLY	SP USE ONLY

A	B	C	D	E	F	G	H	I	J	K	L
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
264	Metal seated gate valves, thermal bonded polymeric coating	261 4.1 - PN16 4.2 - FI-FI 4.3 - Gearbox typically on DN600 and larger (Refer Mechanical IPAM List) 4.4 - Anti-clockwise closing 4.5 - No requirement for spindle cap colour 4.6 - Extension spindle to WSA PS-262 4.7 - Spindle Cap 4.8 - SBR & EPDM 4.9 - Integral bypass not accepted by Urban Utilities	AVK	Series 580	DN375 - DN600	All DI fittings to be wrapped. All valves shall be restrained	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Considered on case by case basis		Use is subject to acceptance by SP
265				Sureflow Series 2580	DN375 - DN600						
266	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, or Valve extension spindles shall be injection moulded high strength, high stiffness glass fibre reinforced thermoplastic in accordance with the relevant sections of AS/NZS 2638.2:2011. 4.4 Spindle support with bearing at 1 per installation minimum and at 1.8 m max spacings for pit installation	Viadux			AS2638 Compliant					
267			NIBF / Iplex								
268			Forge Bros / Vinidex								
269			Daemco								
270			Challenger								
271			ANT Infrastructure Technologies	ANT	Up to DN300		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
272	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 WSA PS-260 for valve component 4.1 - PN16 4.2 - Flange-Flange 4.3 - No integral by-pass 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	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	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP
273	Ball Valves	274 4.1 - PN16 4.2 - Body material: CF8M316 stainless steel; Ball material: CF8M; Components not in contact with water: SS304; 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	Use is subject to acceptance by SP
274	CC-GRP (centrifugally cast) pipe and Fittings - Sewer Pipe	237S 4.1 - PN16 4.2 - SN10,000 minimum 4.3 - Soc-Sp RRJ 4.4 - Standard Glass 4.5 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN400 - DN1400	DI Fittings to WSA PS 201 for Tees and Bends	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP Coupling - Grade 316 Stainless Steel (min.)
275	FW-GRP (filament wound) pipe and Fittings - Sewer Pipe	205S 4.1 - As per product 4.2 - PN16 4.3 - SN10,000 minimum 4.4 - Bends, T-piece, Y-piece, Saddles, Reducers, Flanges and MH Couplings 4.5 - Soc-Sp RRJ 4.6 - Standard Glass 4.7 - SBR & EPDM	Flowtite / Iplex	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	Use is subject to acceptance by SP	Use is subject to acceptance by SP Coupling - Grade 316 Stainless Steel (min.)
276			Global Pipe	Fiberstrong	DN300 - DN4000						
277			Superlit / Clover Pipelines	Superlit	DN300 - DN3000						
278	Flowmeter - Network Meter	No WSAA PS 4.1 - Flange to AS4087 Figure 5 4.2 - PN16	Emerson	Emerson			Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	ABB Water master Use is subject to acceptance by SP
279			ABB	ABB							
280			Siemens	Siemens							
281			E & H	E & H							
282			Krohne	Krohne							
283	Non-return valves - Ball type	No WSA PS 1 - Class PN16 min 2 - Ductile Iron body 3 - SS316 bolts, nuts and washers 4 - Medium - Sewage 5 - Installation - Vertical 6 - Flanged to AS 4087 Figure B5 7 - Thermal-bonded polymeric coating to AS/NZS 4158	Applied Process Equipment, Inc	HDL Model 5087	DN40 - DN600	Suitable for sewage service, vertical orientation only	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP

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Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater																									
Category: SEWERAGE MISCELLANEOUS ITEMS																																			
284	Maintenance structure covers, frames and risers (including for Emergency Storage maintenance holes)	290 4.1 - DN600 4.2 - Round Solid Top (Conc Infill - Urban Utilities only) Sealed Type 4.3 - 600 mm Clear Opening 4.4 - Class B and Class D 4.5 - Standard Lifting Key 4.6 - Markings to AS3996 Clause 1.6. 4.7 - No Hinge 4.8 - Standard Packaging and Delivery 4.9 - As per Standards 4.10 - Standard Coating 4.11 - Bolt down for Surcharge and overland flow areas, 4 x M12 (min) SS316 Bolts 4.12 - As per SP requirements 4.13 - Rocking of cover in frame is not permitted	Gatic / Milne				Concrete Infill Covers are NOT ACCEPTED BY SP Approval of Class D subject to ultimate state load of 240KN as per AS3996:2019. Class E to be used for motorway locations as per AS3996:2019 DI/CI MH lids and frames are not to be used for MHs where internal protective coatings are required as per Clause 7.6.2 (i) to (vii) of the Sewerage Code Use is subject to acceptance by SP	Concrete Infill Covers are NOT ACCEPTED BY SP Approval of Class D subject to ultimate state load of 240KN as per AS3996:2019. Class E to be used for motorway locations as per AS3996:2019	Concrete Infill Covers are NOT ACCEPTED BY SP Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP																								
285			EJ			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						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																				
286			Webforge													Weldlok	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															
287			Civilmart																		Ducast	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										
288			Durham																							Ducast	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					
289			Hygrade																												Ducast	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
290																																			
291																																			
292																																			
293	Polymeric Riser Ring for Concrete Maintenance Holes	345 4.1 - Circular 4.2 - As per Manufacturers requirements 4.3 - 600 mm Minimum as per SP clear opening requirements	ISC Services	CreteX Pro-Ring			Approved are CreteX Pro-Ring polymeric Class D angle, flat and grade make-up rings for sewer maintenance holes round of 610mm opening and rectangular of 914x610mm opening with thickness from 19 – 152mm. Approved for retrofitting only.	Use is subject to prior approval by SEQ-SP. Use is only applicable to raising existing maintenance hole access cover & frame.	Use is subject to acceptance by SP	Use is subject to prior approval by SEQ-SP. Use is only applicable to raising existing maintenance hole access cover & frame.	Use is subject to prior approval by SEQ-SP. Use is only applicable to raising existing maintenance hole access cover & frame.																								
294	Maintenance shaft covers, frames and risers DN<=450	292 4.1 - ≤ DN 450 Round 4.2 - Round solid top 4.3 - DN430 min clear opening 4.4 - Class B and Class D 4.5 - Standard Lifting Key 4.6 - Markings to AS3996 Clause 1.6. 4.7 - No hinge 4.8 - Standard packaging and delivery 4.9 - As per standards 4.10 - Standard coating 4.11 - No bolt down required 4.12 - As per SP requirements	Smartstream	Smartstream Top Hat- P8HDS		DI-Class D	Approval of Class D subject to ultimate state load of 240KN as per AS3996:2019. Class E to be used for motorway locations as per AS3996:2019	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																								
295			Webforge	Webforge (DCC4D32)		DI - Class D																													
296	Maintenance hole lightweight polymeric 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. 4.5 - Standard packaging 4.6 - No specific markings required 4.7 - Class B and Class D 4.8 - Bolt down for Surcharge and overland flow areas, 2 x M12 min SS316 Bolts 4.9 - As per design	Terra Firma			Composite - Class B and D Class E Ø600 clear opening is acceptable for the locations where Class D Ø600 clear opening is required	Non-Corrosive MH lids and frames are required for all MHs where internal protective coatings are required as per Clause 7.6.2 (i) to (vii) of the Sewerage Code TMR approval may be required on TMR roads Approval of Class D subject to ultimate state load of 240KN as per AS3996:2019. Class E to be used for motorway locations as per AS3996:2019 Use is subject to acceptance by SP	Acceptance yet to be determined	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP																								
297			ACO SAKU			Composite - Class B						Only accepted for use in non-trafficable area	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP																				
298			Prime Composites			Composite – Class B and D										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																
299			EJ	EJ SERVO		Composite – Class B and D																													
300	Alternative Emergency Storage maintenance hole cover	290 4.1 - DN1000 4.2 - Two part round, Sealed Type 4.3 - 920 mm Clear Opening 4.4 - Class C 4.5 - Hand grip lifting points 4.6 - No additional marking requirements 4.7 - Central Hinge not required 4.8 - Standard Packaging and Delivery 4.9 - No specific marking requirements 4.10 - No alternative coating requirements 4.11 - 4 x 3/8" Allen Key SS 316 Bolts 4.12 - As per SP requirements 4.13 - Seat ring SS 316 4.14 - Rocking of cover in frame not permitted	Treloar	MC1000-Manway Cover	DN900	Class C Fabricated S/Steel grade 316 ring Nitrile gasket seal This is an alternative cover to be used where specified – generally, standard Maintenance structure covers, frames and risers shall be used on emergency storage maintenance holes	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP																										
301	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			NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP																								
302			Aymroo	Aymroo		M053																													
303			C & C Plastics / Havestock	Posistep																															
304			Industrial Steps & Ladders	Sure-Step																															
305	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 <i>Fixed Platforms, Walkways, Stairways and Ladders - Design and Installation</i>	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP																									
306			Industrial Steps & Ladders	Add-A-Step		Revised installation procedure WSAA Product Update 1-2011, Subject to WSAA appraisal 5/11 and WSAA Product Alert 1-2010. Brackets as per manufacture specification. Fasteners to be SS316. Bright yellow.																													
307			Galvanised Steel			Refer to Standard Drawings																													
308			Aluminium																																
309			Stainless Steel																																

A	B	C	D	E	F	G	H	I	J	K	L
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
310	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	DN300 PVC-U Riser Shaft	Configurations of "Central Axis" maintenance shaft (CAMS) are not accepted		Refer to clause 7.7.2 of the SEQ Sewerage Code	Refer to clause 7.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER
311	Maintenance Shafts PE	322 4.1 - As per Standards 4.2 - As per Specifications 4.3 - As per Standards 4.4.1 - Inlet and Outlet at DN150 to DN225 for PVC RIGSS 4.4.2 - Inlet and Outlet at DN160 to DN250 for PE Nusewer 4.5 - Configurations as shown in Standard drawings 4.6 - As per accepted product 4.7.1 - Inlet and Outlet PVC Sewer connection RRJ 4.7.2 - 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 DN300 PVC riser shaft. Nusewer fully welded with DN315 PE risers and sewer stubs.	Approved for DN150 to DN225 RIGSS only. Refer Standard Drawing SEQ-SEW-1314 Set for other approved PE MS and MH options	Approved for DN150 RIGSS only. Refer to clause 7.7.2 of the SEQ Sewerage Code	Approved for DN150 to DN225 RIGSS only. Refer to clause 7.7.2 of the SEQ Sewerage Code. Refer Standard Drawing SEQ-SEW-1314 Set for other approved PE MS and MH options	Max depth of 5.0 meters is acceptable	
312	Maintenance Shafts Polypropylene	341 4.1 - DN425 Corrugated Risers 4.2 - DN425 PP Base, PP Riser, DICL Cone 4.3 - Riser pipe stiffness SN4 4.4 - DN150 or DN225 DWV PVC connections 4.5 - Configurations: In-line, 30° 60° 90° bends, and 4-way 4.6 - Ribbed base and corrugated riser 4.7 - EPDM or SBR Ring Joints RIGSS connections. DN425 4-way riser junction for riser connections. 4.8 - No locking or relief cap 4.9.1 - Top-hat Class B Frame and Cover 4.9.2 - Top-hat Class D Frame and Cover 4.9.3 - Concrete encased cover arrangement Class B (sloped installations) 4.10 Max depth 3.0 meters to Invert of Sewer Pipe, with 5m water table	Iplex	EZpit PA 09/01	DN425	Refer Standard Drawings Wavin Tegra 425 base + EZpit riser		Refer to clause 7.7.2 of the SEQ Sewerage Code	Refer to clause 7.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER
312		341 4.1 - 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		Refer to clause 7.7.2 of the SEQ Sewerage Code	Refer to clause 7.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER
314			REHAU		OD400-GD (Type H12) OD400-RML (Type H13)						
315	Maintenance Chambers Polypropylene	337 4.1 - DN600 Corrugated Risers 4.2 - DN600 PP Base, PP Riser, DICL Cone 4.3 - Riser pipe stiffness SN6 4.4 - DN150, DN225 DWV PVC connections 4.5 - Configurations: In-line, 30° 60° 90° bends, and 4-way 4.6 - Ribbed base and corrugated riser 4.7 - EPDM or SBR Ring Joints RIGSS connections. DN600 4-way riser junction for riser connections. 4.8 - No locking or relief cap 4.9A - Top-hat Class B Frame and Cover 4.9B - Top-hat Class D Frame and Cover 4.9C - Concrete encased cover arrangement Class B (sloped installations) 4.10 Max depth 3.0 meters to Invert of Sewer Pipe	Iplex	EZpit PA 09/01	DN600	Refer Standard Drawings Wavin Tegra 600 base + EZpit riser		Refer to clause 7.7.2 of the SEQ Sewerage Code	Refer to clause 7.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER Max depth 6.0 meters to Invert of Sewer Pipe
316		337 4.1 - DN600 Corrugated Risers 4.2 - DN600 PP Base, PP Riser, no Cone 4.3 - Riser pipe stiffness SN4 minimum 4.4 - DN150, DN225 4.5 - Configurations: In-line, 30° 60° 90° bends 4.6 - Ribbed base and corrugated riser 4.7 - Elastomeric seal joint 4.8 - No locking or relief cap 4.9.1 - Telescopic adapter for Class B installations 4.9.2 - Standard MH surround, cover and frame 4.10 - Max depth 3.0 meters to Invert of Sewer Pipe	REHAU		DN600			Diameters > DN 600 subject to individual approval	Refer to clause 7.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER Max depth 6.0 meters to Invert of Sewer Pipe
317	Maintenance Chambers Polyethylene (PE)	338 4.1 - DN600 PE Riser 4.2 - PE Riser and Cone 4.3 - Riser pipe stiffness SN4 minimum 4.4 - Inlet and Outlet at DN150 to DN225 for PVC RIGSS 4.5 - Configurations as shown in Standard drawings - same as Type J 4.6 - Plain Wall PE Rotomould 4.7 - Inlet and Outlet PVC Sewer connection RRJ 4.8 - No Locking Cap 4.9 - Concrete Spreader slab and 600 MH Cover 4.10 - Max depth 3.0 meters to Invert of Sewer Pipe	Smartstream	Mini pit	DN600				Use is Subject to acceptance by SP	NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER

A	B	C	D	E	F	G	H	I	J	K	L	
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
318	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 sacrificial 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 considered on case by case basis	Use of MS is considered on case by case basis	NOT ACCEPTED BY SP	Pre-cast MHs accepted for RIGSS Use of MS is subject to acceptance by SP Pre-cast MHs not Accepted for NuSewer	
319			Rocla									
320			Civilmart	Civilmart (BCP Precast)								
321	Pre-cast Concrete Converter Top Slab	No WSA PS 1 - Refer Standard Drawings	Everhard			Refer Standard Drawings. Calcareous aggregates to be used	Use is Subject to acceptance by SP					
322			Civilmart									
323			Australian Quality Precast									
324			Aquarius Precast									
325			First Contact Civil Supplies									
326	Civilcast									Use is Subject to acceptance by SP		
327	Plastic Maintenance Holes	339 for PE MHs 4.1 - Minimum DN1000 Riser and DN600 neck 4.2 - PE Riser and Cone 4.3 - Riser stiffness as advised by Manufacturer 4.4 - Nominal sizes as per Standards and SP requirements 4.5 - Configurations as per Standards and SP requirements (For RIGSS Refer Type K1 on SEQ Code Standard Drawing SEQ-SEW-1314-2) 4.6 - Ladder as per SP requirements 4.7 - Roto moulded riser wall construction 4.8 - Welded (electrofusion or butt) connection for Nusewers; RRJ connection for RIGSS 4.9 - Colour of internal surfaces as per Standard Product 4.10 - Surface cover and frame as per Standards	Smartstream	Smart Pit	DN1050	Refer Standard drawings Max depth FSL to Invert of Pipe is 3.0 meters	Currently approved to be used as maintenance chamber or maintenance shaft only	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP		
328												
329		340 for PP MHs 4.1 - Minimum DN1000 Riser and DN600 neck 4.2 - PP Riser and Cone 4.3 - Riser Pipe Stiffness SN4 4.4 - Nominal sizes as per Standards 4.5 - Configurations as per Standards 4.6 - Ladder as per SP requirements 4.7 - Ribbed base and corrugated riser 4.8 - RRJ connection for RIGSS 4.9 - Colour of internal surfaces as per Standard Product 4.10 - Surface cover and frame as per Standards	Rehau	AWASHAFT	DN1000	Use is subject to acceptance by SP				NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER Max depth 6.0 meters to Invert of Sewer Pipe	
330		Iplex	Ezipit	DN1000	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER Max depth 6.0 meters to Invert of Sewer Pipe							
331	Vent poles	325 and 326 1 - Project Specific outcome	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	
332			Ingal EPS									Accepted Height 12.0 m
333			McBerns									Use is subject to acceptance by SP
334	Valve box and cover C.I. & D.I.	No WSA PS 1 - Refer details on SEQ Code Standard Drawing SEQ-WAT-1305-1	Viadux		As per drawing SEQ-WAT-1305-1 Type B	Refer Water Code Standard Drawings for approved Valve Box and Cover Class D Cover Bitumen coated to AS 3750.4				Only Class D accepted		
335			NIBF									
336			Gatic / Mine									
337			Civilmart	Hygrade Water								
338			Hygrade Water									
339	Daemco											
340	Valve pit access cover and frame	290 4.1 - 600 x 900 mm (Min.) 4.2 - Solid top, Sealed Type 4.3 - 600 x 900 mm Clear Opening (Min.) 4.4 - Class B for non-trafficable areas and Class D for trafficable areas 4.5 - Lifting Key as per Standard Drawings 4.6 - Markings to AS3996 Clause 1.6 (a) to (f). 4.7 - Hinged (Unitywater requires non-hinged access cover) 4.8 - Standard Packaging and Delivery 4.9 - No specific markings required 4.10 - Standard Coating 4.11 - Bolt down requirement by design 4.12 - Weatherproof (sealed) Aluminium 4.13 - Rocking of cover in frame not permitted	McBerns (Aluminium)			Refer Standard Drawings SEQ-SPS-1602-1 and SEQ-SPS-1606-1	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
341			Gatic									
342			Civilmart									
343			Webforge									
344			Hygrade									
345			EJ									
346			Durham									
347			Ducast									
348	Mass Products (Aluminium)											
349	Valve pit lightweight polymeric 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 - Class B for non-trafficable areas and Class D for trafficable areas 4.8 - Bolt down requirement by design 4.9 - As per Design	Prime Composites			Refer Standard Drawings SEQ-SPS-1602-1 and SEQ-SPS-1606-1	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
350			EJ									
351			Terra Firma									
352			ACO SAKU									

SEWERAGE MISCELLANEOUS ITEMS

A	B	C	D	E	F	G	H	I	J	K	L
	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
353	Loose PE sleeving to DI pipe	320 4.1 Cream Colour to POP203	Viadux Crevet	BLUEBOSS Cream		Mandatory sleeving to all DI pipe unless DI pipe manufacturer supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	Gravity pipe Grey colour Pressure pipe Cream colour	Gravity pipe Grey colour Pressure pipe Cream colour	Gravity pipe Grey colour Pressure pipe Cream colour		
354	Embedment material - crushed rock	351 4.1 - Single sized 4.2 - Nominal 5 or 7 mm									
355	Embedment material - recycled concrete	366 4.1 - Single sized 10 mm nominal 4.2 - Moisture Content by design 4.3 - Standard supply requirements	Queensland Recycling				NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP
356	Concrete-Normal Class	357 4.1 - As follows 4.1.1 - Minimum Concrete Strength Class N20 for unreinforced thrust blocks 4.1.2 - Minimum Concrete Strength Class N25 for reinforced embedment 4.2 - Slump as required for placement									
357	Concrete-Special Class (for Maintenance hole and for concrete in aggressive environment)	358 4.1 - SCC40 with Fly Ash/Type SR Portland Cement ratio of 0.25 to 0.30. 4.2 - Slump as required for placement 4.3 - Calcareous aggregate at 20 mm					Calcareous aggregate size to be 10mm minimum. Admixtures shall be non-chloride type	Nominal size of calcareous aggregate to be 10mm minimum. Admixtures shall be non-chloride type	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
358	Gas release valves	275 Refer Appendix B of AS4883 4.1 - Size of Valve - DN50 BSP, DN50 to DN200 Flanged. 4.2 - Class of valve - PN16 4.3 - Type of Port - Full and Reduced port 4.4 - Type of Valve - As per design needs 4.5 - Hydraulic Data - By design to AS4883 Appendix B	ARI Flow control Bernad Vent-O-Mat AVFI ISCO Odour Technologies	ARV-3-N Vent Master PX Vinloc-Smartvalve	DN50-DN200	PN16, Anti Slam as required, Thermal bonded polymeric coating or 316 Stainless steel	DN225 and larger mains to only use Vinloc-Smartvalve	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	See drawing SEQ-SPS-1605-1 for standard gas release valve arrangement (manual operation). When Urban Utilities 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
359	Non-return valves - Swing check with counterweight lever arm	264 Refer Appendix B of AS4794 4.1 - Class PN16 min 4.2 - Size by Design 4.3 - Medium - Sewage 4.4 - Installation - Horizontal 4.5 - Spindle - Extended 4.6 - Lever and Counterweight minimum with switches and indicators by Design 4.7 - Flanged to AS 4087 Figure B5	HMA Valveco Dobbie Dico AVK AVK Challenger Valves AVFI Pty Ltd	Valmatic Swing-flex Dobbie Dico AVK Swing Check Valve 41/25 AVK Swing Check Valve 41/8X Challenger - RSSC AVFI - RSSC	DN50 - DN600 DN80-DN900 DN50 DN80-DN300 DN80-DN375 DN50-DN300	MIN. PN16, Thermal bonded polymeric coating	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP
360	Non-return valves - free acting (without counterweight) Swing Check	264 Refer Appendix B of AS4794 4.1 - Class PN16 min 4.2 - Size by Design 4.3 - Medium - Sewage 4.4 - Installation - Horizontal 4.5 - Spindle - Extended 4.6 - Flanged to AS 4087 Figure B5	HMA Valveco Dobbie Dico AVK AVK Challenger Valves AVFI Pty Ltd	Valmatic Swing-flex Dobbie Dico AVK Swing Check Valve 41/25 AVK Swing Check Valve 41/8X Challenger - RSSC AVFI - RSFC	DN50 - DN600 DN80-DN900 DN50 DN80-DN300 DN80-DN375 DN80 - DN600	MIN. PN16, Thermal bonded polymeric coating	NOT ACCEPTED BY SP	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
361	PVC-U Fabricated Fittings Fibreglass reinforced PVC Type 'D' junctions & fittings	230 4.1 - Plain Wall 4.2 - Solvent Cement joints for Fabricated assemblies with Elastomeric Seal on Fitting Socket Ends 4.3 - Pipe DN100 @ SN10 min and Pipe DN150 and larger SN8 min. Fittings SN6 min 4.4 - SBR & EPDM 4.5 - Heavy Duty fittings are separately listed	Vinidex Iplex Holman Industries M.E. Christensen	Deep Sewer Junction & Reinforced Fittings such as Oblique Joints 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
362	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 Iplex Tri Underground Holman Industries M.E. Christensen	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	NOT ACCEPTED BY SP	
363	PVC-U fully moulded SN8 and SN10 heavy duty junctions, bends and inspection tees	230 4.1 - Plain wall 4.2 - RRJ 4.3 - Min SN10 for DN100 and SN8 for DN150 and larger 4.4 - NBR or SBR or EPDM 4.5 - Heavy duty fittings shall be used 4.6 - One piece fully moulded 4.7 - Fibre reinforcement is not required	Holman Industries Plastec	Holman/Fabfit Plastec	DN100 and DN150	Currently approved are: Heavy duty RRJ Junctions (45 degree), bends (43, 45 and 88 degrees) and inspection tees for property connections SN rating (SN8 or SN10) and letters "Heavy Duty" (Super Duty) shall be imprinted on the surface of fittings. These one piece fully moulded fittings junctions and bends are to be used for Type A and B sewer property connections and are approved alternatives to the currently approved multi-piece fabricated fibre reinforced fittings				Use is subject to acceptance by SP	

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1											
388	Fully moulded heavy duty DWV RRJ Slip Coupling	230 4.1 - Plain wall 4.2 - RRJ 4.3 - Min SN10 for DN100 and SN8 for DN150 and larger 4.4 - NBR or SBR or EPDM 4.5 - Heavy duty fittings shall be used 4.6 - One piece fully moulded 4.7 - Fibre reinforcement is not required	Holman Industries	Holman/Fabfit	DN150	SN rating (SN8 or SN10) and letters "Heavy Duty" (Super Duty) shall be imprinted on the surface of fittings. This one piece fully moulded fitting is to be used for Type A and B sewer property connections.	Use is subject to acceptance by SP		Considered on case by case basis	Use is subject to acceptance by SP	
388	PVC-U heavy duty maintenance hole inspection bends	230 4.1 - Plain wall 4.2 - RRJ 4.3 - Min SN10 for DN100 and SN8 for DN150 and larger 4.4 - NBR or SBR or EPDM 4.5 - Heavy duty fittings shall be used 4.6 - Two moulded pieces welded by factory 4.7 - Fibre reinforcement is not required	Plastec	Plastec	DN100 RRJ/Sp (#19712) DN150 RRJ/Sp (#19714) DN150 Sp/Sp (#20041)	SN rating (SN8 or SN10) and letters "Heavy Duty" (Super Duty) shall be imprinted on the surface of fittings. This fitting is to be used for maintenance hole internal drops. DN150 Sp/Sp (#20041) is to be used for retrofitting on AC sewers only.				Use is subject to acceptance by SP	Use is subject to acceptance by SP
390	Detectable marker tape	318 4.1 - Tape Colour Cream for Non-Pressure and Pressure Sewerage 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								
391			Tapex								
392			Rain Harvesting	421			Use is subject to acceptance by SP				
393			Wenac							Acceptance yet to be determined	
394	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 - Cream for Non-Pressure and Pressure Sewerage	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					
395	Security fencing					AS1725.1 Chain Link Fabric Fencing-powder coated black	Fence details generally to CoGC Standard Drawing 05-014	Refer to SEQ-SP for requirements	Fence details generally to CoGC Standard Drawing 05-014	Refer to SEQ-SP for requirements	
396	Hydrophilic Seal			Hydrotite							
397				KuniSeal C-31 DS		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
398	Casing Spacers	324 4.1 - Carrier pipes OD from 100mm to 1668mm 4.2 - As per design 4.3 - Minimum ID as per Standard Drawings 4.4 - Annular space shall be grouted unless directed otherwise by SP 4.5 - Min space between carrier pipes and encasing pipes 50mm		HDX Series	Runner height of 38, 65, 90 and 125 mm	For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes					
399					HD Series	Runner height of 30, 50, 75 and 100mm 110mm OD to 355mm OD (un-grouted annulus). May be used on carrier pipe diameters greater than 355mm OD where the annulus will be grouted	For SCL, DI, PE, PVC and GRP carrier pipes	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
400						HDXT Series	Runner heights of 43mm, 58mm, 63mm, 103mm, and 153mm, suitable for carrier pipes with outside diameters from 300mm to 3000mm.	For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined
401	Kerb Markers	248 4.1 - SS, Copper Alloy 4.2 - S, IV, GV, SV, VV, RM 4.3 - Circular 4.4 - 19mm 4.5 - 40mm diameter				As per SEQ-SEW-1103-3 and SEQ-SPS-1508-2	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Only Brass markers accepted
402	Camlock					S/Steel 316					Maximum DN100
403	Protective internal lining - Polyethylene	No WSA PS (refer WSA 201 Manual for Selection and Application of Protective Coatings)	Steuler			Mechanically anchored PE lining cast into wall & underside of top slab. PE liner shall be light in colour i.e. either white, cream, beige or yellow.					PE lining Mandatory for Sewerage Pump Stations, Collector Manholes and Sewer Rising Main Discharge Manholes
404			Agrusafe		min. 2.5 mm thickness						
405			Bluey Technologies								
406			AKS								

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1	Protective internal coating - other coating types	<p>No WSA PS (refer WSA 201 Manual for Selection and Application of Protective Coatings) SEQ SPs requirements: 1 - Two component epoxy, solvent free, 100% solids 2 - Suitable for provision of single coats >=0.6mm thick 3 - Excellent stated resistance to Sulphuric Acid via Test results 4 - Minimum 15 minute Pot Life at 20 degrees C 5 - Light coloured 6 - Applied to manufacturers requirements 7 - Combined 10 year warranty from Applicator and Manufacturer</p>	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	Considered on case by case basis (minimum 2.0 mm thickness) Only cementitious or epoxy mortars to be used on existing concrete structures. (Mortar coating minimum 25mm thick)	Use is subject to acceptance by SP Only cementitious or epoxy mortars to be used on existing concrete structures. (Mortar coating typically 25mm thick)	Use is subject to acceptance by SP (minimum 2.0 mm thickness)
407											
408											
409			Sika Australia	Sikagard - 63N							
410			Hychem Epoxy Systems	Hychem TL5							
411			International Paints	Celicoat 2000 Flakeline							
412			ITWPF	Epirez 733UHB							
413			Fernco / JDP Applications	Ultrackoat Epoxy Coating							
414			Interflow	Interchem CAC							
415			BASF	MasterSeal 7000CR							
416	Building Chemical Supplies	Ombran MHP Ombran MHP SP3000		Accepted are Ombran MHP15 and MHP SP3000 Cementitious profiling and coating with min thickness of 12mm to be used for concrete MH repairs							
417			Parchem	Sewpercoat			Use is subject to acceptance by SP				
418	Protective external coating	<p>No WSA PS (refer WSA 201 Manual for Selection and Application of Protective Coatings) SEQ SPs requirements: 1 - Two Component solvent free polyurethane 2 - Suitable for provision of single coats >=0.6mm thick 3 - Excellent stated resistance to Sulphuric Acid via Test results 4 - Minimum 15 minute Pot Life at 20 degrees C 5 - Light coloured 6 - Applied to manufacturers requirements 7 - Combined 10 year warranty from Applicator and Manufacturer</p>	Steuler KCH	Oxydur PTB		Colour white to grey & heritage green	Use is subject to acceptance by SP. External coatings at min 0.3 mm thick dry film via single coat. Sulphuric Acid Resistance to suit site conditions. SP Approved Equivalents are the listed Internal coatings	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP	Use is subject to acceptance by SP (minimum 2.0 mm thickness)
419	Precast concrete packaged sewage pumping stations	<p>No WSA PS 1 - Suppliers to manage the project and to coordinate the construction</p>	Aquatec		DN2.25m and DN3.20m	To be used for reticulation systems only (not for trunk sewers) Subject to geotechnical conditions (e.g. not be used for water charged areas)	Accepted as per Aquatec CoGC version drawing sets 2019.COGC.STD.2250.01 – 07 and 2019.COGC.STD.3200.01 – 07 submitted on 22/11/2019	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP
420			Xylem		DN1.80m, DN2.20m and DN3.0m		Accepted as per Xylem CoGC version drawing set Sheet 1 – Sheet 13 submitted on 22/11/2019				

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Category: WATER SUPPLY PIPES - PRESSURE												
421	PVC-M pipe	209 4.1 - PN16 4.2 - Drinking Water 4.3 - Series 2 only 4.4 - Blue 4.5 - SBR & EPDM	Iplex	RHINO	DN100 to DN450	Reiber ring accepted				Only accepted where PE is unsuitable	NOT ACCEPTED BY SP	
422			Vinidex	Hydro								
423			Viadux	Plaspip								
424			Micron Pipelines	Micron Pipelines								
425	PVC-O pipe	210 4.1 - PN16 4.2 - MRS400 or MRS450 4.3 - Water main 4.4 - Series 2 only 4.5 - SBR & EPDM 4.6 - Pipe colour: Blue for Drinking Water and Purple for No-Drinking Water (refer POP203)	Pipemakers	Pipemakers Enviromain	DN100 to DN300	Series 2 PN16, Min SN 10 MRS400 or MRS450	NOT ACCEPTED BY SP	SP USE ONLY	Use is subject to acceptance by SP	NOT ACCEPTED BY SP		
426												
427			Iplex	Apollo Blue	DN100 to DN300							
428			Vinidex	Supermain								
429	DI Pipe	200 4.1 - All Pressure Classes - see Column F 4.2 - As per SP's requirements - see Column G-K 4.3 - As per accepted product 4.4 - All pipes to be polyurethane or Zn-Al alloy and epoxy coated. 4.5 - Restraint Joint Seals by SP approval 4.6 - SBR & EPDM 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	Micron Pipelines	Micron Pipelines	DN100 - DN375	PN 20	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Considered on case by case basis	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	
430			Pipemakers	Alphamain	DN100 to DN150							
431				TOM®	Up to DN 375							
432			Vinidex	ZAP-GP								
433	DI Pipe	200 4.1 - All Pressure Classes - see Column F 4.2 - As per SP's requirements - see Column G-K 4.3 - As per accepted product 4.4 - All pipes to be polyurethane or Zn-Al alloy and epoxy coated. 4.5 - Restraint Joint Seals by SP approval 4.6 - SBR & EPDM 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	Clover Pipelines	Clover/Xinxing (ZnAIRE400)	DN250 - DN750 (not 225)	PN 35 and Flange Class, GP or SR lining Coating shall be minimum 400g/m2 Zn-Al alloy +100µm synthetic resin, or minimum 900µm polyurethane or approved equivalent.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Seal coat on all pipe sizes	Seal coat on pipes >= 450	Accepted where PE is unsuitable for reticulation mains. Accepted for mains > 300 NB. Seal coating required for all sizes.	Restraint joint seals not suitable for: -PN20 pipe; -Aboveground applications; -Combining joint restraint and thrust blocks; -Epoxy or fusion coated spigots -Other manufacturers sockets or other pipe materials. Use of Clover Pipelines and Beaver-Jindal is subject to acceptance by SP
434			Jindal SAW / Iplex									
435			Jindal SAW / Iplex	Jindal SAW	DN100 to DN750 (not 225)							
436			Xinxing / Iplex	Ironite (XINAL400+ coating)	Up to DN 750 (not 225)							
437			Vinidex	ZAP-GP								
438			Saint-Gobain	PAMTYTON Hydroclass Zinalium								
439			Viadux	DIMAX/TYTONXCEL Z+	DN100 - DN750 (not 225)							
440			Clover Pipelines	Clover/Xinxing (ZnAIRE400)								
441			Clover Pipelines	Clover/Samsun	DN100 to DN300 (not 225)							
442			Reece / Viadux	DIMAX/TYTON XCEED Z+	DN100 to DN750 (not 225)							
443	Jindal SAW / Iplex	Jindal SAW										
444	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 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.	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	
445	Small DN Ductile Iron Water Main pipe at PE OD's	No WSA PS 1 - PN16 minimum	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	
446	SCL pipe	203 4.1 - MPa 1.6 minimum 4.2 - DN by Design subject to SP approval 4.3 - Seal Coat required for all pipe sizes 4.4 - Fusion bonded polyethylene coating minimum 4.5 - Joint requirements by Design 4.6 - Cathodic Protection by design 4.7 - Standard pressure tests 4.8 - Fusion bonded polyethylene lining option 4.9 - Zinc metal spray as per the specification 4.10 - SBR & EPDM, 4.11 - Fusion bonded polyethylene coating minimum	Steel Mains	Sintakote	OD114, 168, 219, 257, 273, 324 to 2159.	Minimum thickness DN100 - 4.8 mm, >DN100 - 5 mm	Accepted for sizes OD610 or larger	Accepted for sizes >DN600	Accepted for sizes >DN600	Accepted where PE is unsuitable for reticulation mains. Accepted for mains > 300 NB.	Seal Coat requirement is dependant on water quality	
447			Pipe Lining and Coating	Fusionkote	OD168, 219, 257, 273, 324 to 3624							

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448	PE pipe	207 4.1 - PN16 4.2 - Drinking and Non-Drinking Water 4.3 - Coil pipe permitted up to DN125 with pipe lengths for larger DN 4.4 - Black with Blue stripes or solid Blue colour for Drinking Water and Black with Purple stripes or solid Purple colour for Non-Drinking Water, refer POP203. 4.5 - PE100 only	Iplex		DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800	PE100 PN16. Blue colour - solid or striped for drinking water. Purple colour - solid or striped for non-drinking water. For directional drilling installations, minimum SDR 9 (PN20 PE100) unless specified otherwise and install with tracer wire. Pipe wall thickness to be designed for installation forces. Butt welded joints are mandatory for HDD construction where continuous pipes on coil are not available	1 - Used as Water Service pipe at DN25 and larger 2 - Used as Drinking Water main at DN63 and DN110 in Dual Water Supply 3 - Used as A+ Non Drinking Water main for Cul-de-sac terminal end at DN63 in Dual Water Supply 4 - Used as Drinking Water main for Cul-de-sac terminal end at DN63 in traditional Drinking Water Reticulation	Approved for water services and water mains <= DN63 only. Other uses, or the use of larger diameters, are considered on case by case basis	Use is subject to acceptance by SP	PE is preferred pipe material for reticulation mains in single and dual water supply systems - PE shall be used for reticulation mains unless specific site conditions dictate otherwise. Either solid or striped colours are permitted for single and/or dual water supply systems.	NOT ACCEPTED BY SP	
449			Vinidex									
450			David Moss Corporation	DAMOS								
451			Cromford	Identil-pipe								
452			Poly Pipe									
453			Enviropipes	Enviropressure								
454			ACP	ACP								DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315
455			Pipemakers	Pipemakers								DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800
456	Clover	Clover/Rohr	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800									
457	Acu-Tech	Acu-Tech										
458	ASA	Blueline	DN25, 32, 40, 50, 63, 90, 125		NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP				
459	PE pipe - High Stress Crack Resistant (HSCR) Polyethylene Pipe	207, POP016 4.1 - PN16 minimum 4.2 - Drinking and Non-Drinking Water 4.3 - Coil pipe permitted up to DN125 with pipe lengths for larger DN 4.4 - Black with Blue stripes or solid Blue colour for Drinking Water and Black with Purple stripes or solid Purple colour 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. Butt welded joints are mandatory for HDD construction where continuous pipes on coil are not available.	1 - Used as Water Service pipe at DN25 and larger 2 - Used as Drinking Water main at DN63 and DN110 in Dual Water Supply 3 - Used as A+ Non Drinking Water main for Cul-de-sac terminal end at DN63 in Dual Water Supply 4 - Used as Drinking Water main for Cul-de-sac terminal end at DN63 in traditional Drinking Water Reticulation	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
460			Acu-Tech	Acu-Tech								
461			David Moss Corporation	DAMOS								
462	Copper pipe	214 4.1 - Annealed for all pipe 4.2 - Natural pipe colour	MM Kembla	Kembla		Type A	Use is subject to acceptance by SP	Type B accepted	Considered on case by case basis	Use is subject to acceptance by SP		
463	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	
464	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		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		
465			Global Pipe	Fiberstrong	DN300 - DN4000	Minimum SN10000, PN16						
466			Superlit / Clover Pipelines	Superlit	DN300 - DN3000							
467	Stainless Steel Pipe	No WSA PS 1 - Refer to WSAA Materials Fact Sheet No.2 Selection of Stainless Steels 2 - Refer to WSAA Materials Fact Sheet No.3 Fabricating Stainless Steels	ASSDA accredited fabricators	N/A	DN20 - 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			
468			MM Kembla	KemPress	DN15 to DN100	Min. Grade 316 Min. PN16				Considered on case by case basis		

A	B	C	D	E	F	G	H	I	J	K	L	
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
Category: WATER SUPPLY FITTINGS - PRESSURE												
468	Lightweight DI bends, tees/branches & connectors	201 4.1 - Soc-Soc, Soc-FI & FI-FI 4.2 - PN16 fittings 4.3 - Restraint Joint Seals by SP 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-Iok) subject to acceptance by SP	
470			Dobbie Dico	Dobbie	DN100 to DN150							
471			Himgiri Castings/Galvin Engineering / CivilPipes	Galvin	DN100 & DN150							
472			Clover Pipelines	Clover	DN100 to DN150							
473	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 & Sureflow	Up to DN750	Thermal bonded polymeric coating. All DI fittings to be wrapped		Use is subject to acceptance by SP			Restraint joint seals not suitable for: PN20 pipe; Aboveground applications; Combining joint restraint and thrust blocks; Epoxy or fusion coated spigots; Other manufacturers sockets or other pipe materials. Use of Restrained Joint Rubber Rings (Tyton-Iok) subject to acceptance by SP	
474			Crevet / Iplex	Crevet								
475			Vinidex	Superlink								
476			Derwent Industries									
477			Gillies / Hygrade									
478			Himgiri Castings/Galvin Engineering / CivilPipes	Galvin								DN80 to DN300
479			Dobbie Dico	Dobbie								DN100 to DN250
480			Mallet	Mallet								DN80 to DN750
481	Clover Pipelines		DN100 to DN150									
482	Daemco	Daemco	DN80 - DN375	Fi-Soc & Fi-Sp Connectors accepted up to DN375	Use is subject to acceptance by SP			Fi-Soc & Fi-Sp Connectors accepted up to DN375	Fi-Soc & Fi-Sp Connectors accepted up to DN375			
483	Reece	DIMAX	DN80 to DN300									
484	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 4.8 - SS316 bolts, nuts and washers	Viadux	Gibault Ezigib & Vari-Gib	Up to DN750	Long type only. All DI fittings to be wrapped. DI must have thermal bonded polymeric coating		Use is subject to acceptance by SP			Caps / Blank Ends not accepted	
485			Crevet	Gibault & Universal Multigib								
486			AVK	Gibault & Universal AVK Supa-Gib Couplings								Up to DN675
487			Viking Johnson	MaxiFit, QuickFit								
488			Derwent Industries	Derwent								DN100 to DN300
489			DEKS	DEKS FLEXI-GIB								DN80 to DN750
490			Daemco	Reinoversal								Up to DN 600
491			Clover Pipelines	Connect VPC								DN100 to DN600
492	Civil Pipes	CPS Uni-Gib	DN 80 - DN 300	CLOVER GIBALT 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			
493												
494	Stainless steel flexible couplings - Unrestrained	285 4.1 - Unrestrained for DI, AC, PVC, steel, GRP and concrete pipes 4.2 - PN16 min	Uniones Arpol SA / Global Pipe	ARPOL	DN150-DN1200	Arpol Instal for joining pipes and Arpol Rep for pipe repairs. Required torque as per manufacturer's requirement marked on each fitting		Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
495												

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1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater						
496	DI mechanical couplings - End Thrust Restraint (Gripper Type)	<p>271</p> <p>4.1 - PN16</p> <p>4.2 - CI, DI, PE, SCL, AC</p> <p>4.3 - Long Series</p> <p>4.4 - Straight and Stepped and Flange Adaptor</p> <p>4.5 - All DN range options</p> <p>4.6 - Flange adaptors to be drilled as per AS/NZS 4087 Figure B5</p> <p>4.7 - SBR & EPDM & Nitrile</p> <p>4.8 - Use of pipe stiffener inserts for PE pipe as per fitting manufacturer's requirements</p> <p>4.9 - All DI fittings to be wrapped with CI and DI systems</p> <p>4.10 - Flange adaptors up to DN355 PE shall be full bore connection i.e. DN63 PE / DN50 FL, DN125 PE / DN100 FL, DN180 PE / DN150 FL, DN250 PE / DN200 FL, DN315 PE / DN250 FL and DN355 PE / DN300 FL</p>	Hawle / Hygrade Water	Synoflex PN16 Restraint	DN50-DN300	<p>Synoflex is manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DN's may not suit the same pipe DN's for some pipe materials and sizes (e.g. DN200 CIOD pipes). In this case a larger gripper socket DN may need to be used. Contractors need to check the suitable gripper socket DN's for their pipes.</p> <p>Does not require pipe stiffener inserts to be installed for PN16 (SDR 11) PE100 pipe.</p>	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater						
497			Georg Fischer	Multi/joint 3000 Plus restraint		<p>Georg Fischer 3000 Plus is manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DN's may not suit the same pipe DN's for some pipe materials and sizes (e.g. DN200 CIOD pipes). In this case a larger gripper socket DN may need to be used. Contractors need to check the suitable gripper socket DN's for their pipes.</p> <p>Requires pipe stiffener insert to be installed when connecting to PE or PVC pipe.</p>						SP USE ONLY					
498			AVK / Fusion Plast Australia	Supa-Maxi	<p>AVK Supa-Maxi is manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DN's may not suit the same pipe DN's for some pipe materials and sizes (e.g. DN200 CIOD pipes). In this case a larger gripper socket DN may need to be used. Contractors need to check the suitable gripper socket DN's for their pipes.</p> <p>Requires pipe stiffener insert to be installed when connecting to PE or PVC pipe.</p> <p>The PE transition couplings rated PN10 are not accepted.</p>	SP USE ONLY Not accepted for use on PVC and GRP pipes End cap shall be used with thrust block											
499			Nova Siria/Hygrade Water	Multigrip	DN350-DN1400								Use is subject to acceptance by SP	Considered on case by case basis			
500			Viking Johnson	UltraGrip	DN100 - DN300												
501			<p>245 for PE</p> <p>4.1 - PN16</p> <p>4.2 - SBR, EPDM and Nitrile</p> <p>4.3 - Use of pipe stiffener inserts for PE pipe as per fitting manufacturer's requirements</p> <p>4.4 - Flange adaptors up to DN355 shall be full bore connection i.e. DN63 PE / DN50 FL, DN125 PE / DN100 FL, DN180 PE / DN150 FL, DN250 PE / DN200 FL, DN315 PE / DN250 FL and DN355 PE / DN300 FL</p>	Hawle / Hygrade Water	System 2000										DN63-DN355	<p>Does not require pipe stiffener inserts to be installed on PN16 (SDR 11) PE100 pipe.</p>	SP USE ONLY
502				AVK	Supa Plus Restraint										DN63 - DN315	<p>Requires pipe stiffener inserts to be installed</p>	
503				Viking Johnson	Aquafast and Aquagrip Restraint											<p>Aquafast does not require pipe stiffener inserts to be installed on PN16 (SDR 11) PE100 pipe.</p> <p>Aquagrip Restraint coupling requires pipe stiffener inserts to be installed on PN16 (SDR 11) PE100 pipe.</p>	
504				Daemco	Xcel Restrained Coupling and Flange Adaptor										DN63 - DN315 for Coupling & DN63 - DN315 for Flange Adaptor	<p>Does not require pipe stiffener inserts to be installed for PN16 (SDR 11) PE100 pipe.</p>	
505				Victaulic Piping Products	Victaulic Restrained Couplings Style 905										Up to DN225	<p>Does not require pipe stiffener inserts to be installed for PN16 (SDR 11) PE100 pipe.</p>	
506	DI flanged telescopic flexible fitting	<p>No WSA PS</p> <p>1 - Aligned to WSA PS-201 and WSA PS-270 with Flanges to AS 4087 Figure B5</p> <p>2 - To comply with WSA PS-201S when published</p>	Hawle / Hygrade Water	Vario	DN50 - DN200		SP USE ONLY			SP USE ONLY							
507	Small DN Ductile Iron Restraint Fittings at PE ODS	<p>No WSA PS</p> <p>1 - PN16 minimum</p>	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					
508	Pretapped connectors	<p>201</p> <p>4.1 - Soc-Soc only</p> <p>4.2 - Standard PN16 fittings</p> <p>4.3 - Restraint Joint Seats by approval</p> <p>4.4 - SBR & EPDM</p>	Derwent	Derwent	DN100 - DN300	<p>Thermal bonded polymeric coating</p> <p>DN100 to DN150 with 4 x 20BSP tappings at 2 per side and DN200 to DN300 1 x 50BSP tapping</p>	NOT ACCEPTED BY SP Based on the recent Australian Standards changes all the current pre-tapped connectors are non-compliant therefore not accepted until new designs are available. Instead the accepted tapping bands can be used as an interim solution.	NOT ACCEPTED BY SP	SP USE ONLY	Urban Utilities	Unitywater						
509			Clover Pipelines	Clover	DN100 to DN150												
510			Viadux	Readytap	DN100 to 300												
511			Crevet / Iplex	Pretapped	DN100 & DN150												
512			Vindex	Superlink	DN100 & DN150												
513			Himigiri Castings/Galvin Engineering / CivilPipes	Galvin	DN100 & DN150												
514	Daemco	Daemco	Up to DN300														

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1											
516	316 SS repair clamps, flanged off-take clamps & BSP tapping clamps	313 4.1 - Type R, Type F or Type R and Type F by SP approval 4.2 - Pipe DN by SP approval 4.3 - Off-take DN by approval 4.4 - Min. PN16	Crevet	Wang	DN100 to DN300	Flanged off-take clamps approved are Type R for DI, AC and CI host pipes and Type F for PVC-m, PVC-u only, to pipe manufacturers specifications. Host pipe to be of suitable condition.	Use is subject to acceptance by SP	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	Type R accepted only In acid sulphate soils the clamp must be Densowrapped.
516			Viadux	Wang	DN100 to DN300						
517			Cascade Control	Rapid Clamps	DN40 to DN350						
518			Daemco	Norma Connect	DN80 to DN300						
519			AVK	AVK Series 748	Up to DN300						
520			Derwent		Up to DN300						
521			Cascade Control	Rapid Clamps CT2 tapping saddles	DN125 – DN355						
522	Flange (DI) off-take clamps for DIOD pipes	313 4.1 - Type R, Type F or Type R and Type F by SP approval 4.2 - Pipe DN by SP approval 4.3 - Off-take DN by approval 4.4 - Min. PN16	Derwent	Uniclamp	DN100 & DN150	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.	Type R and Type F accepted Accepted to be used where under pressure connection is approved by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Only DN100 flange offtake accepted	
523	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 4.8 - SS316 bolts, nuts and washers	Nova Sirial/Hygrade Water	Duofit	DN 300 - DN2000		Use is subject to acceptance by SP	Considered on case by case basis	SP USE ONLY	Use is subject to acceptance by SP	Use is subject to acceptance by SP
524			Hygrade Water Australia	cQuick Encapsulation Repair collar	DN 80 - DN200						
525			AVK	Series 208 Encapsulation Repair collar	DN 80 - DN200						
526	Flange DI off-take clamps	310 4.1 - Pipe DN63 and larger (see WSA PS 207) - Off-take ID 20 mm minimum 4.2 - With or without electrical Isolation 4.3 - Female Rp thread to AS ISO 7.1	Hawe/Hygrade Water	Haku	DN110 to DN355	For use on PE pipe only, installed and commissioned in accordance with manufacturers recommendations	Accepted to be used where under pressure connection is approved by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Where fitting is used as a hydrant tee, fitting is to be installed as an under pressure cut-in connection	
527			Derwent	Uniclamp	DN125 and DN180						

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528	Resilient Seated Gate Valves, thermal bonded polymeric coating.	<p>260</p> <p>4.1 - PN16</p> <p>4.2 - FI-FI, Soc-Soc, Sp-Sp, FI-Soc, FI-Sp and FI-gripper socket end configurations accepted</p> <p>4.3 - Integral By-pass on DN450 and larger (Not accepted by Unitywater and Urban Utilities)</p> <p>4.4 - Gear Box on DN600 and larger (Refer Mechanical List)</p> <p>4.5 - Anti-Clockwise closing</p> <p>4.6 - No requirement for spindle cap colour</p> <p>4.7 - Extension Spindle to WSA PS - 262</p> <p>4.8 - Spindle Cap</p> <p>4.9 - SBR & EPDM</p> <p>4.10 - Stiffener inserts for PE pipe as per manufacturers requirements</p> <p>4.11 - For Urban Utilities, RSGVs shall only be used on mains ≤ 300 NB</p>	AVK	Series 57 (light type only for DN100 & 150) Series 570 Series 55	Up to DN400 Up to DN600 DN450 to DN600	<p>Anchor legs approved</p> <p>All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted</p> <p>All DI fittings to be wrapped</p>	<p>DN500 and DN600 with DN100 By-pass</p> <p>DN750 with DN150 By-pass</p>			<p>Use is subject to acceptance by SP</p>	<p>Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.</p>
529			Hawle / Hygrade Water	E2 E2 System 2000	DN100 - DN200 DN50 - DN300						
530			Hawle / Hygrade Water	E3 (FL-FL)	DN100-DN300						
531			Viadux	Series 500 Auslite Auslite II Bayard Sureflow Auslite III	Up to DN600 DN80, 100 & 150 DN100 to DN300 DN50 - DN200 Up to DN 600						
532			Karon / Challenger	Karon Karon (FL-FL light weight design) Karon (FL-FL integral bypass valves)	DN80 - DN600 DN80 - DN300 DN450 - DN600						
533			AVFI		DN80 - DN600						
534			Betta	BETTA	DN80 - DN600						
535			AAP Industries	Maxiflo/appFLO	DN80 to DN300						
536			Derwent Industries	Derwent	DN80 - DN600						
537			DAEMCO		DN80 to DN300 for Soc-Sp DN80 to DN375 for FL						
538			Reece	DIMAX	DN80 - DN600 (FI-FI) DN100 - DN300 (Soc-Soc) DN100 - DN300 (Sp-Sp)						
539				<p>278 (RSGVs with PE tails)</p> <p>4.1 - PN16</p> <p>4.2 - Anti-Clockwise closing Configurations accepted</p> <p>4.3 - No requirement for spindle cap colour</p> <p>4.4 - Extension Spindle to WSA PS - 262</p> <p>4.5 - Spindle Cap required</p> <p>4.6 - Integral By-pass on DN450 and larger (Not accepted by Unitywater and Urban Utilities)</p> <p>4.7 - For Urban Utilities, RSGVs shall only be used on mains ≤ 300 NB</p>	AVK						
540	Betta	Betta			DN100 & DN150						
541	AVK	Series 01/71			Up to DN300						
542	Hawle	E2 System 2000			DN50 - DN300						
543		<p>281 (RSGVs with restrained/gripper ends)</p> <p>4.1 - PN16</p> <p>4.2 - Anti-Clockwise closing Configurations accepted</p> <p>4.3 - No requirement for spindle cap colour</p> <p>4.4 - Extension Spindle to WSA PS - 262</p> <p>4.5 - Spindle Cap required</p> <p>4.6 - SBR & EPDM</p> <p>4.7 - Stiffener inserts for PE pipe as per manufacturers requirements</p> <p>4.8 - Integral By-pass on DN450 and larger (Not accepted by Unitywater and Urban Utilities)</p> <p>4.9 - For Urban Utilities, RSGVs shall only be used on mains ≤ 300 NB</p>	Betta	BETTA	DN100 - DN300	<p>All valves shall be restrained. All DI fittings to be wrapped.</p>	<p>NOT ACCEPTED BY SP</p>			<p>Use of gripper type RSGVs is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations</p>	
544			Derwent Industries	Derwent	DN100 - DN150						
545		<p>260</p> <p>4.1 - PN25</p> <p>4.2 - FI-FI</p> <p>4.3 - Integral By-pass on DN450 and larger (Not accepted by Unitywater and Urban Utilities)</p> <p>4.4 - Gear Box on DN600 and larger (Refer Mechanical List)</p> <p>4.5 - Anti-Clockwise closing</p> <p>4.6 - No requirement for spindle cap colour</p> <p>4.7 - Extension Spindle to WSA PS - 262</p> <p>4.8 - Spindle Cap</p> <p>4.9 - SBR & EPDM</p> <p>4.10 - For Urban Utilities, RSGVs shall only be used on mains ≤ 300 NB</p>	Reece	DIMAX	DN80-300 (FL-FL)	<p>PN25</p> <p>Anchor legs approved</p> <p>All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted</p> <p>All DI fittings to be wrapped</p>	<p>Use is subject to acceptance by SP</p>			<p>Use is subject to acceptance by SP</p>	
546											
547		<p>283</p> <p>1 - PN16 resilient seated gate valves for under pressure line stopping application for water supply</p> <p>2 - For Urban Utilities, RSGVs shall only be used on mains ≤ 300 NB</p>	Daepoong/ CNS Engineering	S- Gate Valve	DN100 - DN450	<p>Valve for Underpressure Line Stopping, suitable for rigid pipes with CI/OD compatibility, i.e. Ductile Iron, Cast Iron and Asbestos Cement</p> <p>Valves that are unable to be restrained are not accepted.</p> <p>All DI fittings to be wrapped</p>	<p>SP USE ONLY</p>	<p>SP USE ONLY</p>	<p>SP USE ONLY</p>	<p>SP USE ONLY</p>	<p>SP USE ONLY</p>
548		No WSA PS	Interflow	Infrastop	DN80-DN150	<p>Suitable for CI, DI, AC and Series 2 PVC (M & U) using solid plug. The expanding plug is suitable for PVC-M and U to 80m head.</p> <p>Not applicable on PE pipes</p>	<p>Acceptance yet to be determined</p>	<p>SP USE ONLY</p>	<p>Acceptance yet to be determined</p>	<p>Acceptance yet to be determined</p>	<p>SP USE ONLY</p>

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549	Metal seated gate valves, thermal bonded polymeric coating	261 4.1 - PN16 4.2 - Fl-FI 4.3 - Gearbox typically on DN600 and larger (Refer Mechanical IPAM List) 4.4 - Anti-clockwise closing 4.5 - No requirement for spindle cap colour 4.6 - Extension spindle to WSA PS-262 4.7 - Spindle Cap 4.8 - SBR & EPDM 4.9 - Integral bypass not accepted by Urban Utilities 4.10 - For Urban Utilities, MSGVs shall only be used on mains > 300 NB	AVK	Series 580	DN375 – DN600	All DI fittings to be wrapped. All valves shall be restrained	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Considered on case by case basis		Use is subject to acceptance by SP	
550					Sureflow Series 2580	DN375 – DN600						
551	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 WSA PS-260 for valve component 4.1 - PN16 4.2 - Flange-Flange 4.3 - No integral bypass 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	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	
552	Butterfly Valves	263 4.1- PN16 4.2- Resilient seated wafer, lugged or double flanged	Iplex	AVK	DN50-600 for wafer/ lugged DN100-1000 double flanged	Body shall be ductile iron with fusion bonded polymeric coating external to 300 µm, internal to 350 µm (min.) or high-build two-pack epoxy to 500 µm (min.). Disc shall be stainless steel Grade 316. Shaft shall be stainless steel Grade 316, 410, 420, 430 or 431. Seat shall be EPDM, NBR or SBR. All fasteners shall be stainless steel Grade 316. Operation Type: Lever or Gearbox. Gearbox ratio as per manufacturer's requirement and coating – high build two-pack Epoxy 275 µm (min.)	DN100 to DN300 valves are wafer type for in-ground installations and are anti-clockwise closing operated. DN100 to DN300 valves are lugged type for above ground installations and are anti-clockwise closing operated. DN375 and larger valves are all double flanged type and are anti-clockwise closing gearbox operated	Considered on a case by case basis Direction of closing: Anti-clockwise	Considered on case by case basis 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	
553			Emerson / Viadux	Keystone								
554			Ebro	Ebro								
555			AVFI	AVFI								
556			Valveco	Valveco								
557			Challenger	Challenger								
558			Reece	DIMAX								
559			Hydroflow Distributors	Watts								
560			Reece	Dura	DN50 to DN300	Use is subject to acceptance by SP	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	SP USE ONLY	
561	Hydrants	267 4.1 - DN100 Flanges	AVK	Series 30/00 non-swab and 30/10 for swab	Flange to AS 4087 Fig B5. Removable Top Cap & Internal Assembly. Thermal bonded polymeric coating. Purple body and lug for recycled water. PN16.	DN80 flange for SP Use Only. Swabbing type at main ends refer SEQ-WAT-1302-1.	Swabbing type at main ends refer SEQ-WAT-1302-1	Swab type only accepted.	Swab type only accepted.	Use is subject to acceptance by SP	Swab type only accepted. All new hydrants are to be 100 mm with 100 mm flanges, 100 mm risers and spring heads	
562			Viadux	Sureflow								
563			Civil Pipe Supplies	BETTA normal & Swab								
564			AAP Industries	MAXIFLO/appFLO								
565			Derwent Industries	Derwent standard and Swab								
566			Dobbie Dico									
567			Weflo Valve / Reece	DIMAX								
568	Ant Barrier devices for Hydrants	No WSA PS Compliance with AS/NZA 4020	Hydrant Protection	Hydraguard			Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is as directed by SP	Use is subject to acceptance by SP	
569												Retroguard
570	Debris and Ant Barrier Device	No WSA PS	Hydrant Services	Ant and Debris Barrier			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is as directed by SP	Use is subject to acceptance by SP	
571	Hydrant and Air Valve Isolating Valves	282 4.1 - Flange inlet DN100 4.2 - Outlet DN100 4.3 - Outlet type to be hydrant or air valve	AVK		DN80 - DN100	Thermal bonded polymeric coating Min. PN16	SP USE ONLY	DN100 Flange to AS4087 Fig B5 Swabbing type at main ends refer SEQ-WAT-1302-1	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Mandatory for Hydrants on Trunk Water mains >DN300 Isolator Valve for Hydrant - Min. DN100 Clockwise Opening Direction
572			Viadux									
573			Betta / Clover Pipelines	Betta								
574			Crevet									
575	Valve box & cover C.I. or D.I.	No WSA PS 1 - Refer details on SEQ Code Standard Drawings SEQ-WAT-1305-1 and SEQ-WAT-1306-1	NIBF / Iplex			Class D cover Bitumen coated to AS 3750.4	Water Service ferrule Boxes for footpath are Viadux MFNSW-PTHBX or approved equivalent and for roadway are Viadux MVGQ or approved equivalent as per Item 41 of 11-133 and as shown on 11-134 of CoGC metering standard drawings. Lids colour e.g. white are preferred to be painted in factory	Use is subject to acceptance by SP			Only Class D accepted	
576			Gatic / Iplex									
577			Civilmart									
578			Viadux									
579			Hygrade Water	Hygrade Water								
580	Daemco		As per drawing SEQ-WAT-1305-1 Type B									
581	Civil Pipes	Civil Pipes										
582	Hydrant box & cover C.I. or D.I.	No WSA PS 1 - Refer details on SEQ Code Standard Drawings SEQ-WAT-1305-1 and SEQ-WAT-1306-1	Gatic/Iplex			Class D cover Bitumen coated to AS 3750.4	Lids colour yellow are preferred to be painted in factory	Use is subject to acceptance by SP			Only Class D accepted	
583			NIBF / Iplex									
584			Civilmart									
585			Viadux									
586			Hygrade Water	Hygrade Water								
587			Daemco									As per drawing SEQ-WAT-1305-1 Type B
588	Civil Pipes	Civil Pipes										

A	B	C	D	E	F	G	H	I	J	K	L	
	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
589	Valve & hydrant boxes (recycled plastics) & DI Covers	No WSA PS 1 - Refer details on SEQ Code Standard Drawing SEQ-WAT-1305-1	Replas / Viadux			Non-trafficable location only. H - Hydrants V - Valves AV - Air valve	Boxes and lids to be Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2309-1 Lid colours (e.g. white for valves and yellow for hydrants) are preferred to be painted in factory	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	
590			Replas / Crevet									
591			Replas / Vinidex									
592			Replas / Civil Pipes									
593	Valve & hydrant boxes (composite) & DI Covers	No WSA PS 1 - Refer details on SEQ Code Standard Drawing SEQ-WAT-1305-1	Viadux / Daemco	Viadux		Non-trafficable location only. H - Hydrants V - Valves AV - Air valve	Boxes and lids to be Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2309-1 Lid colours (e.g. white for valves and yellow for hydrants) are preferred to be painted in factory	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	
594			Daemco	Daemco								
595	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, or Valve extension spindles shall be injection moulded high strength, high stiffness glass fibre reinforced thermoplastic in accordance with the relevant sections of AS/NZS 2638.2:2011. 4.4 - Spindle support with bearing at 1 per installation minimum and at 1.8 m max spacings for pit installation	Viadux			AS2638 Compliant	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
596			NIBF / Iplex									
597			Forge Bros / Vinidex									
598			Challenger									
599			Daemco									
600			ANT Infrastructure Technologies	ANT	Up to DN300		Use is subject to acceptance by SP	Considered on case by case basis		Use is subject to acceptance by SP		
601	Steel fittings – bends, tees and reducers	204 4.1 - MPa 1.6 minimum 4.2 - DN by Design subject to SP approval 4.3 - Bends, tees, reducers and other types by design to SP approval 4.4 - As per SP requirement 4.5 - Fusion bonded polyethylene coating minimum 4.6 - Joint requirements by design 4.7 - Cathodic Protection by design 4.8 - Fusion bonded polyethylene lining 4.9 - Zinc metal spray as per the specification 4.10 - SBR & EPDM 4.11 - Fusion bonded polyethylene coating minimum	Steel Mains	Sintakote	OD114 - 2500			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
602			Pipe Lining and Coating	Fusionkote	OD168 - 3624							
603	Stainless Steel Fittings	No WSA PS 1 - WaterMark acceptance.	MM Kembla	KemPress	DN15 to DN100	Min. Grade 316 Min. PN16	Use is subject to acceptance by SP		Considered on case by case basis	Use is subject to acceptance by SP		
604	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 - Zinc metal spray as per the specification 4.10 - SBR & EPDM 4.11 - Fusion bonded polyethylene coating minimum	Steel Mains			Class 16. Thermal bonded polymeric coating						
605			NIBF / Iplex									
606	Flange gaskets and 'O' rings	312 4.1 - PN16 min or as per Design 4.2 - Gasket as Standard with O-ring required for 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									
607	Bolts	No WSA PS 1 - Refer details on SEQ-WAT-1313-1				316 Stainless steel bolts						
608	PE mechanical compression fittings for reduced size water mains	208 DN63 2.(a) - AS/NZS4129 or EN 1254 acceptable Certification 4.1 - PN16 minimum 4.2 - Mechanical Polyethylene, Polypropylene or Copper Alloy both with approved Plastic grippers/olives/thimbles 4.3.1 - Transition - PE to Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4.3.2 - Coupling - PE to PE 4.4 - Flange not used 4.5 - SBR & EPDM	George Fischer			Metal male fittings connecting to plastic female fittings is not accepted	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	Use is subject to acceptance by SP
609			Philmac / Philmac & Vinidex									
610			Plasson									
611			Talbot									
612			Alprene									
613			Iplex									
614			Viadux									
615			Hydroflow / SAB S.p.A	SAB Black Nut Blueseal								
616	Viega	Geopress K										
617			Zetco TOF			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	Use is subject to acceptance by SP	Use is subject to acceptance by SP	

WATER SUPPLY FITTINGS - PRESSURE

A	B	C	D	E	F	G	H	I	J	K	L	
	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
1												
618	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		Up to DN710	Electrofusion fittings to be long type. Stub flanges only to be used for sizes DN450 and larger	Accepted where PE pipes are approved to be used	Accepted where PE pipes are approved to be used for DN63. The use of larger diameters is considered on a case by case basis	Accepted for DN63 and DN110	Hydrant saddles shall only be installed as an under pressure cut-in connection	Flanged tees and flanged saddles are not accepted by SP Hydrant saddles shall only be installed as an under pressure cut-in connection	
619			Georg Fischer	ELGEF Plus Draw - Lock								
620			Friatec / Vinidex	Frialen								Up to DN630
621			Agru	Agru								Up to DN630
622			Fusion Group / FusionPlast	Fusamatic								Up to DN630
623			NUPIGECO	Elofit								DN20 to DN710
624			Plastitalia S.p.A / Hydroflow	PLAST								Up to DN630
625			Plastitalia S.p.A / Advanced Piping Systems	PLAS								Up to DN630
626			Fox Fittings Sp. / Advanced Piping Systems	Fox								Up to DN630
627			Mako	Mako								Up to DN630
628			Simona / Plasson	Simona								Up to DN500
629			David Moss Corporation	DAMOS								Up to DN1000
630	Fusion QLD	Flo Right		Up to DN450								
631	Guangdon Liansu / Crew Pipelines	Lesso		DN63 - DN800								
632	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	Agruline	Up to DN630	Comply with AS4129, PN16. Electrofusion fittings to be long type. Stub flanges only to be used sizes DN450 and larger.	Accepted where PE pipes are approved to be used Sizes of DN630 and above which are machined fittings are subject to acceptance by SP	Accepted where PE pipes are approved to be used	Use is subject to acceptance by SP	Accepted up to DN355. Hydrant saddles shall only be installed as an under pressure cut-in connection		
633	PE fittings - Fabricated	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	Adroit	Adroit		Butt Welded Fittings Stub flange may only be used for DN450 and larger sizes.	Accepted where PE pipes are approved to be used	Considered on a case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
634			Pipestar	Pipestar	Up to DN355		Use is subject to acceptance by SP		Use is subject to acceptance by SP	Only sweep bends accepted.	Use is subject to acceptance by SP	
635	Copper compression fittings	No WSA PS	Viega	Propress	DN15-DN100		Use is subject to acceptance by SP	Accepted up to DN 25	Considered on case by case basis	Only accepted when connecting a new copper pipe to an existing copper water service	Use is subject to acceptance by SP	
636			MM Kembla	KemPress						Use is subject to acceptance by SP		
637	Full face PE flanges (for reticulation sizes)	208 (Moulded) 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		Metal insert in the flange, backing rings not required	Accepted where PE pipes are approved to be used	Accepted where PE pipes are approved to be used	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
638			Plasson		DN80 / DN100	DN90 riser with slotted flanges suit both DN80 & DN100 flanged hydrants						
639			Iplex		Up to DN355	Full face full bore connections						
640			Friatec / Vinidex	Frialen	Up to DN180	Metal insert in the flange, backing rings not required						
641			Fusion Group / FusionPlast	Fusamatic	DN90 to DN 450	Accepted where PE pipes are approved to be used Only DN125 - DN355 accepted						
642			David Moss Corporation	DAMOS	Up to DN355	Use is subject to acceptance by SP						
643		208 (Fabricated) 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	Rodney / Vinidex	Maxi Stub	Up to DN450	Full face full bore connections	Accepted where PE pipes are approved to be used	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use of stub flanges is subject to acceptance by SP		
644	PE scour Tees	No WSA PS 1 - Compliance with AS/NZS 4129 & POP006 2 - PN16 Minimum 3 - Butt weld pipe joint with full face flange adaptor 4 - Flange compatible with AS 4087 Figure B5 and have SS316 backing ring	Vinidex / Rodney			Comply with AS4129	Accepted where PE pipes are approved to be used	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP			
645			Kingston Bridge / Iplex									
646	Air valves	265	ARI Flow control			Min PN16 Plastic body only permitted for DN20 and DN25 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		
647			Bermad									
648			Vent-O-Mat		DN20-DN200							
649			AVFI	DAV-MH								
650			ISCO	Vent Master PX			NOT ACCEPTED BY SP	Use is subject to acceptance by SP				

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1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
651	Non-return valves - Swing check with counterweight lever arm	264 Refer Appendix B of AS4794 4.1 - Class PN16 min 4.2 - Size by Design 4.3 - Medium - Water 4.4 - Installation - Horizontal 4.5 - Spindle - Extended 4.6 - Lever and Counterweight minimum with switches and indicators by Design 4.7 - Flanged to AS 4087 Figure B5	HMA Valveco	Valmatic Swing-flex	DN50 - DN600	Thermal bonded polymeric coating	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP		NOT ACCEPTED BY SP	
652			Dobbie Dico	Dobbie Dico	DN80-DN900							
653			AVK	AVK Swing Check Valve 41/25	DN50							
654			AVK	AVK Swing Check Valve 41/8X	DN80-DN300							
655			Challenger Valves	Challenger - RSSC	DN80-DN375							
656			AVFI Pty Ltd	AVFI - RSSC	DN50-DN300							
657	Non-return valves - free acting (without counterweight) Swing Check	264 Refer Appendix B of AS4794 4.1 - Class PN16 min 4.2 - Size by Design 4.3 - Medium - Water 4.4 - Installation - Horizontal 4.5 - Spindle - Extended 4.6 - 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	
658			Dobbie Dico	Dobbie Dico	DN80-DN900							
659			AVK	AVK Swing Check Valve 41/25	DN50							
660			AVK	AVK Swing Check Valve 41/8X	DN80-DN300							
661			Challenger Valves	Challenger - RSSC	DN80-DN375							
662			AVFI Pty Ltd	AVFI - RSFC	DN50-DN300							
663	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	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 (In PRV installations where upstream pressures can be within 50 kPa of the required downstream pressure, Plasson C valves are preferred).	
664			Singer / HMA Valveco	Singer								
665			Plasson Australia Pty Ltd	Plasson C-Valve								
666			Dorot Australia Pty Ltd	Dorot 300 Series								
667			Cla-Val Pacific / Challenger	Cla-Val	DN25-DN1200							
668	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	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	
669			Singer / HMA Valveco	Singer								
670			Dorot Australia Pty Ltd	Dorot 300 Series	DN25-DN1200 (Sustaining)							
671			Cla-Val Pacific / Challenger	Cla-Val	DN-80-DN1200 (Altitude)							
672	PE Flex Restraint Fitting (used as puddle flange)	No WSA PS 1 - PN16 minimum	Georg Fischer	EF Flex Restraint	DN 180 - DN1600	PE100 In accordance with manufacturer's requirements	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP			
673			Plasson	Flex Restraint	DN180 - DN1600							
674	Mechanical Restraining Flange for PE Pipe	No WSA PS 1 - PN16 Minimum 2 - SS316 bolts, nuts and washers	Derwent Industries		DN125 and DN180		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	
675	Dismantling joints for Flange Pipe and Fittings	284 4.1 - No alternative material grades 4.2 - As per manufacturer's requirements 4.3 - Configuration: FI-FI for DJ & FI/Sp for UniFlange 4.4 - Fitting type: thrust type and non-thrust type 4.5 - Thrust Restraint by Fitting 4.6 - 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.	Dismantling joints shall be restrained type only and for Mains only. Uni-flanges shall be for meter assemblies only	Use is subject to acceptance by SP	Considered on case by case basis	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
676			Viking Johnson				Dismantling joints shall be restrained type only and for Meter Assemblies only. Use of uni-flange is subject to acceptance of SP.					
677			Valveco	Uni-Flange Adaptor	DN50-DN500		Uni-flanges shall be for meter assemblies only					
678			Hygrade Water	Pipemate	DN80-DN900		For Meter Assemblies only, restrained type only					
679			AVFI	AFD10 Series	DN80-DN1200		For Mains only, restrained type only					
680			AVFI	AFD20 Series	DN80-DN1200		For Meter Assemblies only, restrained type only					
681			IPLEX	Crevit	DN80 to DN750		For Meter Assemblies only, restrained type only					
682							Acceptance yet to be determined					
683	Flowmeter - Network Meter	No WSA PS 4.1 - Flange to AS4087 Figure 5 4.2 - PN16	Emerson	Emerson		Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	ABB Water master		
684			ABB	ABB							Use is subject to acceptance by SP	
685			Siemens	Siemens							E & H Promag W400	
686			E & H	E & H							NOT ACCEPTED BY SP	
686			Krohne	Krohne		Acceptance yet to be determined	Considered on a case by case basis	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined		

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Category: WATER SERVICES													
687	Tapping bands for DI & PVC pipes	310 4.1 - DN100 to DN300 4.2 - With or Without Electrical Isolation 4.3 - Female Rp thread to AS ISO 7.1	Viadux			Gunmetal - Positive stops Tapping bands are not to be used on DI/CI pipes unless suitable electrical insulation is provided by either the tapping band or the pipe coating				RMC tapping band also accepted on AC pipe	SP USE ONLY		
688			Gatic / Milne										
689			RMC										
690			Clover	Clover	DN100-300 Type F for PVC (S2 only) and AC pipes							Use is subject to acceptance by SP	
691			Hydroflow	P & I	DN100-200 Type F for PVC (S1&2) and AC pipes								Use is subject to acceptance by SP
692	Tapping bands for PE - mechanical	310 4.1 - DN100 to DN300 4.2 - Without Electrical Isolation 4.3 - Female Rp thread to AS ISO 7.1	4N Products & Stockbrands	4N	DN100, 150, 200	Positive stops, coloured blue	NOT ACCEPTED BY SP		Considered on case by case basis	RMC tapping band also accepted on AC pipe	SP USE ONLY		
693			Austworld	TPAB10020	DN100 Type F for PVC (S2 only) and AC pipes, outlet size DN20			Use is subject to acceptance by SP	Acceptance yet to be determined	Considered on case by case basis			
694				TPAB10025	DN100 Type F for PVC (S2 only) and AC pipes, with DN25 outlet								
695	Tapping bands for PE - mechanical	310 4.1 - DN100 to DN300 4.2 - Without Electrical Isolation 4.3 - Female Rp thread to AS ISO 7.1	Gatic / Milne		DN63-DN315	Gunmetal - Positive stops Only for where E-F saddles are not practicable	NOT ACCEPTED BY SP				NOT ACCEPTED BY SP		
696			4N Products & Stockbrands	4N	DN63, 90, 125 & 180	Positive stops, coloured black Only for where E-F saddles are not practicable WSAA Appraisal PA10/19				SP USE ONLY			
697			Hawle / Hygrade Water	Haku	DN63 - DN315	Ductile iron lower half							
698			Hawle / Hygrade Water	Haku	DN280 - DN500	Stainless steel strap lower half. For min PN16 (SDR11) pipes	Accepted where PE pipes are approved to be used		Considered on case by case basis		NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	
699			Derwent	Uniclamp	DN125 and DN180	Only for where E-F saddles are not practical							
700	Under pressure Tapping Valve for PE - mechanical	310 4.1 - DN100 to DN300 4.2 - Without Electrical Isolation 4.3 - Female Rp thread to AS ISO 7.1	Viega	Geopress K	DN 63 - DN180	Only for where E-F saddles are not practical	Use is subject to acceptance by SP	Considered on a case by case basis	Considered on case by case basis				
701	Tapping saddle for PE - electrofusion	329 329.2.(a) - EN Standards accepted 4.1 - Pipe DN63 and larger (see WSA PS 207) - 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 where PE pipes are approved to be used.	NOT ACCEPTED BY SP	Accepted for DN63 and DN110	Flanged saddles are not accepted by SP	Flanged saddles are not accepted by SP		
702			George Fischer										
703			Friatec / Vinidex	Frialen									
704			Fusion Group / FusionPlast	Fusamatic	Up to DN355								Use is subject to acceptance by SP
705			Hydroflow	Plastitalia	Up to DN315								Accepted where PE pipes are approved to be used
706	Tapping saddle for PE - Electrofusion - High Stress Crack Resistant (HSCR)	310 4.1 - Pipe DN125 - DN355 - Off-take 20mm NB minimum 4.2 - With or without electrical Isolation 4.3 - Female RP thread to AS ISO 7.1	Advanced Piping Systems / Plastitalia S.p.A	PLAS	Up to DN 315		Use is subject to acceptance by SP		Use is subject to acceptance by SP		Use is subject to acceptance by SP		
707													
708	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		NOT ACCEPTED BY SP	Use is subject to acceptance by SP		SP USE ONLY		
709			Elster										
710			RMC										
711			Strongcast	TPFNR Tapping Valve	DN20								Use is subject to acceptance by SP
712													

A	B	C	D	E	F	G	H	I	J	K	L	
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
713	Ball valves - Water Service	274 4.1 - PN16 minimum 4.2 - Plastic not permitted, Body and Handle to be DR copper alloy or stainless steel 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 minimum 50 mm handle (from handle tip to shaft spline centre). 4.6 - Water Supply Property Service	All Valve	Airaga	DN20 & DN25	Dezincification resistant material and comply with AS/NZS 3688	Both M/F thread and PE compression joints are accepted	F/F Ball valves with BSP thread only accepted Accepted for DN20 and DN25 at meter end of services. Ball valves must be lockable in both on and off position.	Use is subject to acceptance by SP	Accepted for DN20 & DN25	NOT ACCEPTED BY SP	Ball valves must be capable of being locked by the customer with their own padlock.
714			Elson	Elson			Use is subject to acceptance by SP		Use is subject to acceptance by SP			
715			Gatic / Milne				M/F thread joints only accepted					
716			Elster				Both M/F thread and PE compression joints are accepted					
717			RMC				Both M/F thread and PE compression joints are accepted					
718			Zetco TOF				M/F thread joints only accepted					
719			Strongcast	Strongcast			Both M/F thread and PE compression joints are accepted					
720			Austworld	LOGI VALVE			M/F thread joints only accepted					
721			Galvin Engineering	Galvin Engineering			Use is subject to acceptance by SP					
722			Flocontrol	Arita			Acceptance yet to be determined					
723	Austworld	LOGI VALVE	M/F thread joints only accepted									
724	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	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	
725			Elster									
726			RMC									
727	Slip Coupling	No WSA PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3565.1, AS 3718 and AS 3688. 2 - PN 16 3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4 - Watermark acceptance 5 - Coupling to have 5mm to 20mm movement with locking nut	Elster		DN20 and DN25	DN25 only is accepted	Considered on case by case basis	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	
728			RMC		Shall have a locking nut and a metallic stopper to prevent moving apart or kinking between the moving parts							
729			Austworld		Both configurations of individual and combined with ball valves are accepted							
730	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		Metal male fittings connecting to plastic female fittings is not accepted	PE electro-fusion to BSP connections	Considered on case by case basis	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	Push fitting not accepted by SP	
731			Georg Fischer									
732			Friatec / Vinidex									
733			Viega	Geopress K								Up to DN63
734			Philmac	Transition UTC								DN20
735	PE mechanical compression fittings for Small Diameter Water Service pipes	208 or 247 DN25 to DN63 2(a) - AS/NZS4129, EN1254 or equivalent acceptable Certification 4.1 - PN16 minimum 4.2 - Mechanical Polyethylene, Polypropylene or Copper Alloy both with approved Plastic grippers/olives/thimbles 4.3.1 - Transition - PE to Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4.3.2 - Coupling - PE to PE 4.4 - Flange not used 4.5 - SBR & EPDM	George Fischer		DN25 to DN63	PE to PE or PE to BSP. Push fit type is not accepted. Metal male fittings connecting to plastic female fittings is not accepted.	Use is subject to acceptance by SP	Preferred water meter tail/nut as a separate item and not integrated into a fitting	Considered on case by case basis	Use is subject to acceptance by SP	Talbot fittings not accepted. Push type fittings only accepted with the approval of Unitywater.	
736			Philmac / Philmac & Vinidex									
737			Plasson									
738			Elster	TITA								DN25
739			Zetco TOF									DN25-DN63
740			Talbot									
741			Alprene									
742			Hydroflow / SAB S.p.A	SAB Black Nut Bluseal								DN25 to DN63
743			Iplex									
744			Viadux									
745			NUPIGECO	Elopress								
746			Austworld	LOGI CIVIL								DN25 & DN 32
747	Viega	Geopress K	DN25 - DN63									
748	Strongcast	Strongcast	DN25 & DN32									
749	Meters - 20 mm (direct and sub-metering applications)	No WSA PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer and integral Dual Check Valves 4 - Std Tail Nut with gasket 5 - Colour per SEQ-SP requirements	Elster / Honeywell	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 and Vertical orientation Use is subject to acceptance by SP Horizontal and Vertical orientation Not permitted to be used for Hard Wired AMR systems utilising Reed Switches. Not to be used for sub-meters. NOT ACCEPTED BY SP Acceptance yet to be determined Acceptance yet to be determined Acceptance yet to be determined	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	PE pipe stand use is considered on case by case basis	PE pipe stands not accepted by SP	Use is subject to acceptance by SP	
750			Elster / Honeywell	V200								
751			Itron	TD8								
752			RMC	WM273MRP multijet								
753			RMC	WM281MRP multijet								
754			GVT	TPWM								
755			Xylem	Sensus model 620								
756			Xylem	Sensus iperl								
757			Itron	Intelis								

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	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
758	Meters - 25 mm (direct and sub-metering applications)	No WSA PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer and integral Dual Check Valves 4 - Std Tail Nut with gasket 5 - Colour per SEQ-SP requirements	Elster / Honeywell	V100 (PSM-T) (WM252PD)		Purple body for non-drinking water	Horizontal and Vertical orientation	NOT ACCEPTED BY SP		Only accepted for above ground installation	NOT ACCEPTED BY SP	
759			Elster / Honeywell	V200		Accuracy Class 2	Use is subject to acceptance by SP					
760			Itron	TD8		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Horizontal and Vertical orientation					
761			RMC	WM271MRP multijet			Horizontal orientation only	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
762			Xylem	Sensus iperl			Not permitted to be used for Hard Wired AMR systems utilising Reed Switches. Not to be used for sub-meters.	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
763			Itron	Intelis			Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
764	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 / Honeywell	V100 (PSM-T)		Purple body for non-drinking water		NOT ACCEPTED BY SP			NOT ACCEPTED BY SP	
765			Elster / Honeywell	V200		Accuracy Class 2	Shall be supplied with integral reverse flow restrictor	Use is subject to acceptance by SP		Testable backflow prevention device required		
766			Itron	TD8		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Considered on case by case basis		NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Testable backflow prevention device required	
767			RMC	MRP			Shall be supplied with integral reverse flow restrictor		NOT ACCEPTED BY SP		NOT ACCEPTED BY SP	
768			Xylem	Sensus iperl			Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
769			Itron	Intelis			Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
770	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 / Honeywell	V100 (PSM-T)		Purple body for non-drinking water	Shall be supplied with integral reverse flow restrictor	NOT ACCEPTED BY SP				
771			Elster / Honeywell	V200		Accuracy Class 2	Horizontal and Vertical orientation	Shall be supplied with integral reverse flow restrictor	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Testable backflow prevention device required	
772			Itron	Flostar M		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Shall be supplied with integral reverse flow restrictor		NOT ACCEPTED BY SP			
773			RMC	WM400 / V100 (PSM-T)			Horizontal orientation only	Shall be supplied with integral reverse flow restrictor	Shall be supplied with integral reverse flow restrictor		Use is subject to acceptance by SP	
774			Xylem	Sensus iperl			Horizontal and Vertical orientation	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
775			Itron	Intelis			Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
776	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 / Honeywell	H4000 Woltmann			Horizontal and Vertical orientation	Shall be capable of providing pulse output				
777			Elster / Honeywell	H5000			Use is subject to acceptance by SP	Considered on case by case basis		NOT ACCEPTED BY SP		
778			Arad / RMC	Woltman Silver Turbo			Purple body for non-drinking water	Horizontal orientation only	Shall be capable of providing pulse output			
779			Itron	Flostar M			Accuracy Class 2	Up to DN150		Use is subject to acceptance by SP	Above ground installation with external top accessible (basket type) inline strainers	
780			Itron	Woltex			Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy		Considered on case by case basis		NOT ACCEPTED BY SP	
781			Sensus	Meistream				Use is subject to acceptance by SP			Only accept Meistream Plus meter installed above ground with external top accessible (basket type) inline strainers	
782	Inline Strainer	No WSA PS	Elster	Kent H4010 Strainer	Up to DN150							
783			RMC		Up to DN150	PN16			Use is subject to acceptance by SP			
784			Hydromet		Up to DN200	FI-FI			Considered on case by case basis	Only Flat-top accepted		
785			Virginia Metals		Up to DN200	Top entry basket Type		Use is subject to acceptance by SP				
786	Y Strainer	No WSA PS	Emerson	VALVCHEQ	DN65 - DN300					Use is subject to acceptance by SP		
787			AVFI	AS105F Cast Iron Y Strainer	DN50 - DN300	PN16	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP		Use is subject to acceptance by SP	
788			Austworld	DR W/Mark	DN40 to DN50	Fusion bonded epoxy coated ductile iron		Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Ductile Iron is preferred
789	Flowmeters	No WSA PS 1 - Flange to AS4087 Figure 5 2 - PN16	Arad Ultrasonica / RMC	Octave			R=500. SS body only for DN150 and smaller sizes. Horizontal and Vertical orientation.		Use is subject to acceptance by SP	Approved for fire system metering only. Combined Fire/Domestic water applications accepted for townhouse style CTS schemes. Only Stainless Steel bodied meters accepted.	Use is subject to acceptance by SP	
790			Siemens Electromagnetic	Siemens Mag 8000 Advanced			Purple body for non-drinking water.	R=400.	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
791			Siemens Ultrasonic	Siemens			Accuracy Class 1 or Class 2.	DN100 & DN150 - Horizontal and Vertical orientation, DN200 and larger - Horizontal orientation only.			NOT ACCEPTED BY SP	Use is subject to acceptance by SP
792			E & H Electromagnetic	E & H Promag W400			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	
793			E & H Ultrasonic	E & H						Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP
794			Emerson	Emerson						Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP
795	ABB	WaterMaster AquaMaster							NOT ACCEPTED BY SP			
796	Automatic Meter Reading (AMR) Systems (sub-metering applications)	No WSA PS Meter reading dials shall have between 0 kL and 10 kL of consumption showing at the time of meter supply	Enware	Enware				Hard-wired systems only. Only Elster Reed Switches to be used. One DER (digital electronic read outs) panel per building. Min 12 months combined products & installation warranty			NOT ACCEPTED BY SP	
797			Epitomly	Epitomly							NOT ACCEPTED BY SP	
798			Utility Technology	Utility Technology						Refer to Logan Water Sub-metering for Multi-Unit Properties Guidelines		
799			Halytech	Spider							NOT ACCEPTED BY SP	
800			Ausmeter	Ausmeter							NOT ACCEPTED BY SP	NOT ACCEPTED BY SP
801			Itron	Everblu							NOT ACCEPTED BY SP	NOT ACCEPTED BY SP
802	SUMS	Vivid Multi Logger					Use is subject to acceptance by SP		Use is subject to acceptance by SP			
803	Meter boxes - Class A	No WSA PS 1 - Lids Virgin HDPE with Box Virgin and/or regrid HDPE 2 - Lid in Box at Class A to AS 3996 3 - Lid shall have a slip resistant pattern that is certified to AS/NZS4586 for Table 2 (Class W) and Table 5 (Classification R11). 4 - Lids shall snap-lock into the box and shall include a metal device for Location and a separate 2 mm Galvanised Chain or 2 mm SS304 wire rope fixed to the lid and box. 5 - The Lid shall have moulded on it's upper surface Water Meter and shall be coloured as per SEQ-SP's requirements.	Everhard Industries		368L * 271W * 316D (for 20 mm meters only)			Blue Lid not permitted.			NOT ACCEPTED BY SP	
804			Everhard Industries		492L * 271W * 316D		Blue, Black or Green meter box lids	DN40 long boxes for all new and/or retrofitting are the Viscount (Linpac) P7 pit collars with a "METER BOX" permanent label on an aluminium lid or approved equivalent. DN40 short boxes for retrofitting only are the Dura 15"x21"x12" valve box with a "METER BOX" permanent label on lid or approved equivalent	Blue Lid not permitted (SP use only)	Blue Lid not permitted Considered on case by case basis	Solid purple lid with non-drinking water symbol and lettering for non-drinking water meters. Black or blue lid for drinking water meters. Green lid not permitted.	Purple lid for non-drinking water meter box Black or green lid for drinking water meter box Blue lid not permitted
805			Draper		440L * 275W * 280D							
806			Strongcast		427L * 267W * 316D							
807			All Valve Industries	AVMB	445L * 288W * 320D				Use is subject to acceptance by SP			Use is subject to acceptance by SP

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	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
1	Meter boxes – Class C	No WSA PS 1 - Lid in Box at Class C to AS 3996 2 - Lid shall have a slip resistant pattern that is certified to AS/NZS4586 for Table 2 (Class W) and Table 5 (Classification R11). 3 - 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.	Strongcast	SCCOLMED/SCLIDMED	413L * 253W* 316 D		Use is subject to acceptance by SP		Blue lid not permitted Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP
808											
809	Single check detector check valves	No WSA PS 1 - Single Check valve to AS/NZS 2845.1 2 - Fitted with compliant meters as per above	Emerson	VALVCHEQ	DN100 & DN150	Model SC03. Flanged connection & spring set to 50 kPa	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Fitted with top accessible (basket type) inline strainer	
810			Watts	SDCV	DN80 to DN200		Acceptance yet to be determined		Acceptance yet to be determined	Acceptance yet to be determined	Acceptance on case by case basis
811	Double check valve (DCV), Double check detector assembly (DCCA)	No WSA PS 1 - Certified to AS/NZS 2845	Emerson	VALVCHEQ	DN40, 50, 100 & 150		Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Considered on case by case basis	Use is subject to acceptance by SP	
812			Bernad	Cla-Val							
813			Hydroflow Distributors	Watts							Use is subject to acceptance by SP
814	Pre-assembled dual meter boxes	No WSA PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Elster		DN20	Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Use is subject to acceptance by SP May only be used for dual water supply systems Install pre-assembled dual boxes as per SEQ-NDW-2303-1 and 2304-1	NOT ACCEPTED BY SP	Install approved pre-assembled boxes as per SP requirements	NOT ACCEPTED BY SP	Use is subject to acceptance by SP
815			RMC	KIT235 WMKIT235		All components shall be approved fittings No Slip couplings			Use is subject to acceptance by SP		
816	Pre-assembled single meter boxes	No WSA PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Strongcast	SCMBA20			Accepted assemblies are: GCSCMB-2PE/TD8 – with meter, brass PE ends, standard supply. SCMB-2PE – without meter, brass PE ends, standard supply. GCSCMB-2BSP/TD8 – with meter, thread ends, supply on request only. SCMB-2BSP – without meter, thread ends, supplied on request only				
817			Elster		DN20	Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy.	Accepted assemblies are: 46491-25 – with meter, brass PE ends, standard supply. 46491-26 – without meter, brass PE ends, standard supply. 46491-22 – with or without meter, thread ends, supply on request only	Acceptance of flat faced nuts yet to be determined. Install approved pre-assembled boxes as per SEQ-WAT-1110 set	V200 meter only. No slip coupling		Use is subject to acceptance by SP
818			RMC	KIT236 WMKIT236		All components shall be approved fittings. No slip couplings.	Accepted assemblies are: KIT238 – without meter, brass PE ends, standard supply. WMKIT238 – with meter, brass PE ends, standard supply. KIT237 – without meter, thread ends, supply on request only. WMKIT237 – with meter, thread ends, supply on request only	Only to be installed as per SP requirements Blue Lid not permitted	NOT ACCEPTED BY SP		
819			All Valve Industries	AVMB-2BSP/TD8 AVMB-2PE/TD8			Accepted assemblies are: AVMB-2PE – with/without meter, brass PE ends, standard supply. AVMB-2BSP – with/without meter, thread ends, supply on request only.	Accepted without meter for submetering application only. A blank perforated bridging piece in place of the water meter. Not accepted for residential subdivision.			
820			Strongcast	SCMB-2BSP	DN25						
821			Strongcast	SCMB18SP32	DN32		Use is subject to acceptance by SP	Acceptance of flat faced nuts yet to be determined.			
822	Sub-meter assemblies - wall mount brackets	No WSA PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Elster	46491-00					Install approved sub-meter assemblies as per SP requirements	Only accepted with no slip coupling	
823			All Valve	SMA20M			Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP		
824			Strongcast	SCMLIM20							
825			Austworld	SMK05	DN20				Install approved sub-meter assemblies as per SP requirements	NOT ACCEPTED BY SP	Slip Coupling not accepted
826				SMK with Telescopic slip coupling		Drinking or Non-drinking	Accepted with the use of approved slip couplings				
827				KIT227		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Use is subject to acceptance by SP	Considered on case by case basis			
828			RMC	KIT227Q		For wall bracket assemblies the wall bracket shall be stainless steel rigid type					
829			Elster	46492-00			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
830			Austworld	SMK06	DN25					NOT ACCEPTED BY SP	Use is subject to acceptance by SP
831				SMK07 with Telescopic slip coupling							
832			Strongcast	SCMLIM25Q			Use is subject to acceptance by SP	NOT ACCEPTED BY SP			
833			Strongcast	SCMLIM32Q	DN32						

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1											
834	Dual Check valves for Meter assemblies DN40 and Larger	No WSA PS 1 - Certified to AS/NZS 2845.1 2 - Non-Testable 3 - PN16 and Flanged to AS4087 Figure B5 4 - Ductile Iron body with AS4158 coating and lining or SS316 body or SS304 body if SS316 unavailable	Emerson	VALVCHEQ		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Alternatively figure DC03 double check valves are acceptable	NOT ACCEPTED BY SP	Considered on case by case basis	Use is subject to acceptance by SP	
835			Hydroflow Distributors	Watts			Use is subject to acceptance by SP			Use is subject to acceptance by SP	
836			LWG Zurn	Model 375							
837	Reduced pressure zone device (RPZD), Reduced pressure detector assembly (RPDA)	No WSA PS 1 - Certified to AS/NZS 2845	RMC							Any brand with ISO Type 5 product certification to AS2845 is accepted	UW prefers RP03 RPZ
838			Emerson / ValvCheQ	RP03							
839			Hydroflow Distributors	Watts			Use is subject to acceptance by SP		Use is subject to acceptance by SP		Use is subject to acceptance by SP
840			RMC								
841	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	NEFA		DN15 – DN50	Stainless Steel seat. Not buried.	Not used - Private Plumbing facility	Not used - Private Plumbing Facility	Not used - Private Plumbing Facility	Not used - Private Plumbing facility	
842			Hydroflow Distributors	Watts							Use is subject to acceptance by SP
843	Constant flow control device	No WSA PS 1 - PN16 minimum 2 - Watermark certification 3 - DR Brass Body material 4 - Screwed BSP fitting type- 5 - Life expectancy > 20 years	Maric Flow Control	Maric Screwed Valve - BSP	20mm	Device shall be installed for water property service supplied by an existing trickle feed system. Device shall connect to meter coupling on the upstream side of meter, within the meter box.	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	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
Category: WATER SUPPLY MISCELLANEOUS ITEMS											
844	Detectable marker tape	318 4.1 - Tape Colour Blue for Drinking Water, Purple for Non-Drinking Water 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								
845			Tapex								
846			LWG Zurn								
847			Rain Harvesting	421			Use is subject to acceptance by SP				
848			Wenac							Use is subject to acceptance by SP	
849											
850	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	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					
851	Loose PE sleeving to DI pipe	320	Viadux			Mandatory sleeving to all DI pipe unless DI pipe manufacturer supplier can guarantee it is not needed following comprehensive soil testing and risk assessment. Colours are Blue for Drinking Water and Purple for Non Drinking Water to POP203					
852			Crevet	BLUEBOSS blue							
853	PVC - M conduits	209 4.1 - PN12 minimum 4.2 - Water Service Conduit 4.3 - Series 1 SCJ 4.4 - White for Water Conduit 4.5 - SCJ only	Iplex			Minimum PN12 Series 1	CoGC also accepts uPVC series 1 PN12 as per SEQ-WAT-1106-1	LCC also accepts 100 dia uPVC PN9 Series 1			UW requires uPVC PN9 series 1 with solvent weld joint- Refer drawing SEQ-WAT-1108-1.
854			Vinidex	Hydro S1							
855			Viadux								
856			Pipemakers								
857	Embedment material - crushed rock	351 4.1 - Single sized. 4.2 - Nominal 5 or 7 mm									
858	Embedment material - recycled concrete	366 4.1 - Single sized 10 mm nominal 4.2 - Moisture Content by design 4.3 - Standard supply requirements	Queensland Recycling				NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP
859	Embedment material - sand	350 4.1 - Grade A or B					Main pipe and large service pipe (DN63 and Larger) uses are subject to acceptance by SP Small service pipe uses (DN25- DN50 PE) are mandatory	Main pipe use considered on case by case basis. Service pipe use mandatory	Main pipe use is subject to acceptance by SP Service pipe use mandatory		
860	Concrete	357 4.1.1 - Minimum Concrete Strength Class N20 for unreinforced thrust blocks 4.1.2 - Minimum Concrete Strength Class N25 for reinforced embedment 4.2 - Stumps as required for placement				Normal class					
861	Security fencing	No WSA PS				AS1725.1 Chain Link Fabric Fencing-powder coated black	Fence details generally to CoGC Standard Drawing 05-014	Refer to SEQ-SP for requirements	Fence details generally to CoGC Standard Drawing 05-014	Refer to SEQ-SP for requirements	In accordance with Unitywater's specification Pr9903 - Specification for Building and Structural Works, Section 5.15 Security Fencing.
862			Bluedog Fencing	Securatop		Minimum panel height 2.1m; Powder coated black to AS4506	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
863			Oxworks	Hercules			Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
864	Casing Spacers	324 4.1 - Carrier pipes OD from 100mm to 1668mm 4.2 - As per design 4.3 - Minimum ID as per Standard Drawings 4.4 - Annular space shall be grouted unless directed otherwise by SP 4.5 - Min space between carrier pipes and encasing pipes 50mm				Runner height of 38, 65, 90 and 125 mm For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes					
865			kwik-ZIP			Runner height of 30, 50, 75 and 100mm 110mm OD to 355mm OD (un-grouted annulus). May be used on carrier pipe diameters greater than 355mm OD where the annulus will be grouted. For SCL, DI, PE, PVC and GRP carrier pipes	Use is subject to acceptance of SP	Considered on case by case basis	Use is subject to acceptance of SP	Use is subject to acceptance of SP	
866						Runner heights of 43mm, 58mm, 63mm, 103mm, and 153mm, suitable for carrier pipes with outside diameters from 300mm to 3000mm. For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes	Acceptance yet to be determined		Acceptance yet to be determined	Acceptance yet to be determined	
867	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					
868	Kerb Markers	248 4.1 - SS, Copper Alloy 4.2 - H, F, AV, SV, SH, VB, V, SC, HL, ML, LL, WM 4.3 - Circular 4.4 - 19mm 4.5 - 40mm diameter				As per SEQ-WAT-1300-1					Only Brass markers accepted
869	Camlock	No WSA PS				S/Steel 316					Maximum DN100

WATER SUPPLY MISCELLANEOUS ITEMS

A	B	C	D	E	F	G	H	I	J	K	L	
	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
1												
870	Valve pit access cover and frame	290 4.1 - 600 x 900 mm (Min.) 4.2 - Solid top, Sealed Type 4.3 - 600 x 900 mm Clear Opening (Min.) 4.4 - Class B for non-trafficable areas and Class D for trafficable areas 4.5 - Lifting Key as per Standard Drawings 4.6 - Markings to AS3996 Clause 1.6 (a) to (f). 4.7 - Hinged (Unitywater requires non-hinged access cover) 4.8 - Standard Packaging and Delivery 4.9 - As per Standards 4.10 - Standard Coating 4.11 - Bolt down requirement by design 4.12 - Weatherproof (sealed) Aluminium 4.13 - Rocking of cover in frame not permitted	McBerns (Aluminium)			Refer Standard Drawings SEQ-WAT-1307-3, SEQ-WAT-1308-1 and SEQ-WAT-1310-4	Use is subject to acceptance by SP	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
871			Gatic									
872			Civilmart									
873			Webforge									
874			Hygrade									
875			EJ									
876			Durham									
877			Ducast									
878	Mass Products (Aluminium)											
879	Valve pit lightweight polymeric 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 4.8 - Class B for non-trafficable areas and Class D for trafficable areas	Prime Composites			Refer Standard Drawings SEQ-WAT-1307-3, SEQ-WAT-1308-1 and SEQ-WAT-1310-4	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
880			EJ									
881			Terra Firma									
882	ACO SAKU											
883	Protective external coating	No WSA PS 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 min 0.3 mm thick dry film via single coat. Sulphuric Acid resistance to suit site conditions. SP Approved Equivalents are the listed Internal coatings	Considered on case by case basis (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP (minimum 2.0 mm thickness)	Use is subject to acceptance by SP (minimum 2.0 mm thickness)	
884	Category: EMERGENCY STORAGE CHAMBERS											
885	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	
886			Rocla	Concrete Detention System	Conc. Box units (2.4 m modules) Conc. Pipe units (2.44 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	
887			Humes	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		Considered on case by case basis			NOT ACCEPTED BY SP	
888			Rocla				Use is subject to acceptance by SP			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use Accepted with condition of 30 Year Warranty & Providing access opening of larger size about 1200 mm opening
889			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						
890			Aquatec Fluid Systems	Aquatec Fibreglass Storage Vessels	From 1 m to 4 m dia and 1 m to 20 m length	Fibreglass construction As per SEQ-SPS-1402-1				Use accepted - Warranty acceptable to SP to be provided		
891			Tank Solutions	Mullaly	1470mm to 3275mm in diameter 3.3m to 15m in length	Fibreglass construction As per SEQ-SPS-1402-1			Considered on case by case basis		Use is subject to acceptance by SP	Use is subject to acceptance by SP
892	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 Accepted - Minimum 20 year warranty		