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1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	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 - Dww 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 For sewer deeper than 3m, supporting documentation shall be submitted by RPEQ to demonstrate the selected pipe material is appropriate for the purpose and complies with the AS2566.	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
Vinidex			DWV SEWER								
Viadux			D-FLO								
5			Micron Pipelines	Micron Pipelines	DN100 to DN300	Pipemakers	Pipemakers	Use is subject to acceptance by SP			
6			7	8							
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	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 Dww 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 For sewer deeper than 3m, supporting documentation shall be submitted by RPEQ to demonstrate the selected pipe material is appropriate for the purpose and complies with the AS2566.	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 to DN700 (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	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	
14			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 to DN750	400g/m ² Zn/Al+100µm epoxy or min 900 micron Polyurethane external coating.	Min 1300 micron Polyurethane internal lining	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
16			Viadux	DIMAX/TYTON XCEED Z+	DN100 to DN750						
17			Viadux	DIMAX/TYTONXTREME Z+	DN100 to DN750	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
18			Jindal SAW/Iplex	Ironite	DN100 to DN750						
19	Saint-Gobain	Integral Zinalium	DN100 to DN750								
20	Vinidex	ZAP-HAC	DN100 to DN750								
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	OD168 to OD3624	Coating to be fusion bonded Polyethylene minimum.	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							
23	Steel Fittings To 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 to OD2500	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		
24			Pipe Lining and Coating	Fusionkote	OD168 to OD3624						
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 to DN900	Accepted DN450 or larger	Supporting documentation shall be submitted by RPEQ to demonstrate the selected pipe material is appropriate for the purpose and complies with the AS2566.	Considered on case by case basis	Supporting documentation shall be submitted by RPEQ to demonstrate the selected pipe material is appropriate for the purpose and complies with the AS2566.	NOT ACCEPTED BY SP	SP USE ONLY
26			Iplex	SewerMAX	DN225 to DN600						
27			Enviropipes	EnviroPipe	DN150 to DN900						

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE

November 2023 (Revision B)

ACCEPTED CIVIL PRODUCTS AND MATERIALS

A	B	C	D	E	F	G	H	I	J	K	L
	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
1											
28	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	POLIplex	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	
29			Vinidex	Sewertech							
30			David Moss Corporation	DAMOS Hi-Vis							
31			Viadux								
32			Poly Pipe	SewerFlex							
33			Enviropipes	Enviropressure							
34			ACP	ACP							
35			Pipemakers	Pipemakers							
36	Clover	Clover / Rohr									
37	Acu-Tech	Acu-Tech									
38	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.	Use is subject to acceptance by SP Flanged tees and flanged saddles are not accepted by SP.
39			Friatec / Vinidex								
40			Plasson	Lightfit							
41			Agru	AGRU							
42				Agruline							
43			Fusion Group/FusionPlast	Fusamatic							
44			NUPIGECO	Elofit							
45			Hydroflow / Plastitalia S.p.A	PLAST							
46	David Moss Corporation	DAMOS									
47	Advanced Piping Systems / Plastitalia S.p.A	PLAS									
48	Fusion QLD	Flo Right									
49	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 to DN315	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
50			Iplex								
51			Smartstream								
52			Adroit	Adroit							
53			David Moss Corporation	DAMOS Hi-Vis Fittings							
54			Holman	Holtech							
55			Pipestar	Pipestar							
56			Allmach PFS Pty Ltd	Sewerstream							
57	Advanced Piping Systems / Plastitalia S.p.A										
58	PE Flex Restraint Fitting (Used As Puddle Flange)	No WSA PS	Georg Fischer	EF Flex Restraint	DN160 to DN1600	PE100 In accordance with manufacturer's requirements	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Acceptance yet to be determined	Acceptance yet to be determined
59			Plasson	Flex Restraint	DN160 to DN1600						
60	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 to 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
61			Steinzeug Keramo	Keramo							
62			Naylor / Rocla	Denlok							
63	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
64			Viadux								
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 DN630						
68			VIP Polymers/ Jaybro Group	VIPSeal	DN100 to DN600						
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	Up to DN675	Long type. All DI fittings to be wrapped. DI must have thermal bonded polymeric coating				CLOVER GIBALT NOT ACCEPTED BY SP	Use is subject to acceptance by SP
70			Crevet	Gibault & Universal							
71			AVK	Gibault & Universal							
72				AVK Supa-Gib Couplings							
73			Viking Johnson	MaxiFit & QuickFit							
74			Derwent Industries								
75			DEKS	DEKS FLEXI-GIB							
76			Daemco	Reinoversal							
77	Clover Pipelines	Clover Connect VPC									
78	Civil Pipes	CPS Uni-Gib									
79	Pushfit Coupling, Internal For Non-Pressure Applications	250	Fernco / Flex-seal	ICON Pushfit	DN95 / DN100 / DN95 to 100 / DN95 to 150 / DN100 to 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 to 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	SP USE ONLY	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 to 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

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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	Use is subject to acceptance by SP				
83			Humes												
84	Polycrrete Pipe	No WSA PS 4.1 - Class to suit design 4.2 - Bends not permitted 4.3 - Compliance with ASTM D 6783, DIN 54815-1 and DIN 54815-2 4.4 - SBR and EPDM Sewer Pipe and Jacking Pipe approved	Iplex	Meyer pipe			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.)				
85			Global Pipe	Al Watani	DN200 to DN2600										
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 to DN1400	Sewer Pipe	Acceptance yet to be determined	Considered on case by case basis Supporting documentation shall be submitted by RPEQ to demonstrate the selected pipe material is appropriate for the purpose and complies with the AS2566.	Considered on case by case basis	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 to DN3000	Sewer Pipe	Acceptance yet to be determined	Considered on case by case basis Supporting documentation shall be submitted by RPEQ to demonstrate the selected pipe material is appropriate for the purpose and complies with the AS2566.	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP				
88			Global Pipe	Fiberstrong	DN300 to DN4000						Use is subject to acceptance by SP				
89			Superlit / Clover Pipelines	Superlit	DN300 to DN3000						Use is subject to acceptance by SP				
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 to DN3600	Jacking pipes	Acceptance yet to be determined	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 Only use GRP coupling for acid sulphate soil and saline environment				
91			DFHB / Empire Infrastructure	BOSSPIPE	DN300 to DN2000		Considered on case by case basis								
92			Superlit / Clover Pipelines	Superlit	DN400 to DN1400		Acceptance yet to be determined								
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 to DN3000	Jacking pipes	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	Use is subject to acceptance by SP Only use GRP coupling for acid sulphate soil and saline environment				
94			Superlit / Clover Pipelines	Superlit	DN300 to DN3000										
95			Future Pipe Industries / Empire Infrastructure	Fiberstrong	DN300 to DN2200							Acceptance yet to be determined			
96	Non-Return Valves	280 4.1 - Solvent Cement 4.2 - SN10 4.3 - No alternate elastomeric materials for joint seals accepted No WSA PS	Iplex	Flap valve	DN50 to DN300	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					
97				Reflux valve fabricated	DN100										
98			Viridex	Flap valve	DN50 to DN100										
99			Fernco	HDPE FlapValve	DN100 to DN600							Acceptance yet to be determined	Considered on case by case basis	Acceptance yet to be determined	Acceptance yet to be determined
100			Hygrade Water	WaStop Non-return valves	DN75 to DN1800							Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	
101			Flotech Controls	Red valve - Tidelflex check valves	DN50 to DN2400										
102			HMA Flow & Industrial	Proflex Rubber Check Valve	DN25 to DN2500										
103	Fluid Control	Proflex Rubber Check Valve	DN25 to DN2500	Acceptance yet to be determined	Acceptance yet to be determined	Considered on case by case basis	Acceptance yet to be determined								
104	Prime Composites	Ring Mount Floodgate Wall Mount Floodgate Scour Valve Floodgate	DN100 to DN900												
105	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	Subject to meeting the corrosion resistance requirements in Column F				
106			Challenger	Challenger											
107			AVFI	AVFI											
108			HMA Flow & Industrial	HMA Valveco											
109			AVK (Note: This is the only vendor complying with 316 SS throughout)	Orbinox											
110	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	Considered on case by case basis	Use is subject to acceptance by SP					
111	Knife Gate Valve/Penstock - Fabricated Stainless Steel	No WSA 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	Fabricated knife gate valve / penstock to comply with requirements of Unitywater Pr9693 Specification for Mechanical Installation				
112			Hygrade Water	Atec GmbH	DN100 to DN2800	Use is subject to acceptance by SP									
113	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		Considered on case by case basis	Use is subject to acceptance by SP					
114			Challenger	Challenger											
115			AVFI	AVFI											
116			AVK	CYL											

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Category: SEWERAGE PIPES AND FITTINGS - PRESSURE														
117	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			NOT ACCEPTED BY SP		Use is subject to acceptance by SP	NOT ACCEPTED BY SP			
118			Vinidex	Hydro										
119			Viadux	Plaspipe										
120			Micron Pipelines	Micron Pipelines										
121			Pipemakers	Pipemakers Enviro-main	DN100 to DN300									
122	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		NOT ACCEPTED BY SP		NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP			
123			Vinidex	Supermain										
124			Micron Pipelines	Micron Pipelines										
125			Pipemakers	Alphamain										
126				TOM®	Up to DN375			Use is subject to acceptance by SP						
127	DI Pipe	200 and WSAA TN6 4.1 - All Pressure Classes - see Column G 4.2 - Seal Coat not required for Sewerage 4.3 - Internal Linings - see Columns G-L 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 PN20, CAC lining for corrosive flows PN35 and Flange Class, GP or SR lining 400g/m2 Zn/Al+100µm epoxy or min 900 micron Polyurethane external coating. PN35 and Flange Class, CAC or HAC lining for corrosive flows 400g/m2 Zn/Al+100µm epoxy or min 900 micron Polyurethane external coating. PN35 and Flange Class, CAC or HAC lining for corrosive flows 400g/m2 Zn/Al+100µm epoxy or min 900 micron Polyurethane external coating. PN35 and Flange Class 400g/m2 Zn/Al+100µm epoxy or min 900 micron Polyurethane external coating Min 1300 micron Polyurethane internal lining	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Cement Mortar lining of any type is not permitted at locations where there is a potential of the pipe lining in contact with air/gas continuously of intermittently. Alternative non-corrosive lining or pipe and fittings required.	Cement Mortar lining of any type is not permitted at locations where there is a potential of the pipe lining in contact with air/gas continuously of intermittently. Alternative non-corrosive lining or pipe and fittings required.	Cement Mortar lining of any type is not permitted within 5.0 metres of the HGL at pump stop. Alternative non-corrosive lining or pipe and fittings required.	NOT ACCEPTED BY SP	PN20 NOT ACCEPTED BY SP
128			Vinidex	ZAP-GP										
129			Clover Pipelines	Clover/Xinxing										
130			Vinidex	ZAP-HAC										
131			Clover Pipelines	Clover/Xinxing										
132			Vinidex	ZAP-GP										
133			Jindal SAW / Iplex	Iron-tite (XINAL400+ coating)	Up to DN750 (not 225)									
134			Jindal SAW / Iplex	Iron-tite (XINAL400+ coating)										
135			Vinidex	ZAP-HAC										
136			Saint-Gobain	DIMAX/TYTONXTREME Z+	DN100 to DN750 (not 225)									
137			Viadux	DIMAX/TYTONXTREME Z+										
138			Clover Pipelines	Clover/Xinxing										
139	Clover Pipelines	Clover/Samsun												
140	Reece/Viadux	DIMAX/TYTON XCEED Z+	DN100 to DN750 (not 225)											
141	Jindal SAW / Iplex	Jindal SAW												
142														
143	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 - Restraint Joints on Zinc/Bitumen coated pipe 4.5 - Only Polyurethane coating on aerial pipes 4.6 - SBR, EPDM or NBR 4.7 - PE sleeving is required on ALL DI pipes unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	VonRoll / Reece	Ducpur/ Ecopur	DN80 to DN700	Polyurethane internal protection	Detector Tape for ISO Pipe spirally wound along pipe and over PE sleeve.	Considered on case by case basis	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP			
144	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 - PN 35 wall thickness for all fittings including PN16 flanged fittings 4.3 - Restraint Joint Seals by approval 4.4 - SBR & EPDM	Viadux	Tyton Joint & Sureflow (not Light)	DN80 to DN750	Traditional fittings DN225 not accepted Thermal bonded polymeric coating is the standard material in WSA PS 201 and WSA PS212. All DI fittings to be wrapped					Restraint joint seals not suitable for: PN20 pipe; Aboveground applications; Combining joint restraint and thrust blocks; Epoxy or fusion coated spigots; Other manufacturers sockets or other pipe materials. Use of Restrained Joint Rubber Rings (Tyton-Iok) subject to acceptance by SP.			
145			Crevet / Iplex	Crevet (not Crevet SL)	DN80 to DN750									
146			Vinidex	Superlink (not Superlink II)	DN300 to DN750 (not DN80 to DN250)									
147			Derwent	Derwent (plus A or J or M)	DN200 to DN750 (not DN80 to DN150)									
148			Gillies / Hygrade	Gillies	DN80 to DN300									
149			Himgiri Castings/Galvin Engineering / CivilPipes	Galvin	DN80 to DN300									
150			Dobbie Dico	Dobbie Series G1 (not Series G2)	DN100 to DN250									
151			Mallet	Mallet	DN80 to DN750									
152			Daemco	Daemco	DN80 to DN375									
153			Reece	DIMAX	DN200 to DN300 (not DN80 to DN150)									
154	AVK	Series 718 (not Light)	DN80 to DN750											
155	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.)				
156	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			SP USE ONLY	Type R accepted only In acid sulphate soils the clamp must be Denso wrapped.			
157			Viadux	Wang	DN100 to DN300									
158			Cascade Control	Rapid Clamps	DN40 to DN350									
159			Daemco	Norma Connect	DN80 to DN300									
160			AVK	AVK Series 748	Up to DN300									
161			Derwent											

A	B	C	D	E	F	G	H	I	J	K	L	
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
162	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		SP USE ONLY	Only DN100 flange offtake accepted		
163	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	DN300 to 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	
164			Hygrade Water Australia	cQuick Encapsulation Repair collar	DN80 to DN200							
165			AVK	Series 208 Encapsulation Repair collar	DN80 to DN200							
166			Bellhouse	Bell Joint Leak Clamp	DN80 to DN300						Acceptance yet to be determined	
167	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	SP USE ONLY	Only accepted for use where welded joints are not practical and where under pressure connection is approved by SP		
168			Derwent	Uniclamp	DN125 and DN180							
169	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	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
170			DEKS	DEKS shear banded coupling	DN100 to DN225							
171	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.						
172			Crevet	Gibault & Universal								
173			AVK	Gibault & Universal								
174				AVK Supa-Gib Couplings								
175			Viking Johnson	MaxiFit, QuickFit								
176			Derwent Industries									DN100 to DN300
177			DEKS	DEKS FLEXI-GIB								DN80 to DN600
178			Daemco	Reinoversal								Up to DN600
179			Clover Pipelines	Clover Connect VPC								DN100 to DN600
180			Civil Pipes	CPS Uni-Gib								DN80 to DN300
181	Stainless Steel Flexible Couplings To Unrestrained	285 4.1 to Unrestrained for DI, AC, PVC, steel, GRP and concrete pipes 4.2 to PN16 min	Uniones Arpol SA / Global Pipe	ARPOL	DN150toDN1200	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	ARPOL INSTAL - Accepted ARPOL REP - SP USE ONLY	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
182	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	50NB to 300NB	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.			SP USE ONLY Subject to structural assessment of host 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	
183			Georg Fischer	Multijoint 3000 Plus Restraint		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.						
184			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.						
185			Nova Siria / Hygrade Water	Multigrip		DN350 to DN1400						Requires pipe stiffener insert to be installed when connecting to PN16 (SDR 11) PE100 pipe.
186			Viking Johnson	UltraGrip		DN100 to DN300						
187	DI Flanged Telescopic Flexible Fitting	245 for PE 4.1 - PN16 4.2 - SBR, EPDM and Nitrile 4.3 - Use of pipe stiffener inserts for PE pipe as per fitting manufacturer's requirements 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	Hawle / Hygrade Water	System 2000	DN63 to DN355	Does not require pipe stiffener inserts to be installed on PN16 (SDR 11) PE100 pipe.			SP USE ONLY Subject to structural assessment of host pipe	Only accepted for use where welded joints are not practical	AVK SupaPlus restrained couplings are subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations. The use of gripper type fittings on AC, DI and SCL pipe is subject to acceptance by SP	
188			AVK	Supa Plus Restraint	DN63 to DN315	Requires pipe stiffener inserts to be installed						
189			Viking Johnson	Aquafast and Aquagrip Restraint		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.						
190			Daemco	Xcel Restrained Coupling and Flange Adaptor	DN63 to DN315 for Coupling & DN63 to DN315 for Flange Adaptor	Does not require pipe stiffener inserts to be installed for PN16 (SDR 11) PE100 pipe.						
191			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.						
192	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 to DN200	All DI fittings to be wrapped	SP USE ONLY		SP USE ONLY	SP USE ONLY		

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193	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				Uni-flange to be used within pit or aboveground locations only		
194			Viking Johnson			SS316 bolts, nuts and washers.	NOT ACCEPTED BY SP						
195			HMA Flow & Industrial	Uni-Flange Adaptor	DN50 to DN500	Larger sizes of UniFlange shall be assessed for available Fitting PN vs Pipeline Test Head.	Use is subject to acceptance by SP						
196			Hygrade Water	Pipemate	DN80 to DN900	All DI fittings to be wrapped	NOT ACCEPTED BY SP		Considered on case by case basis	Use is subject to acceptance by SP			
197			AVFI	AFD10 Series	DN80 to DN1200		Restrained type only		Restrained type only				
198	PE Pipe	207 4.1 - PN16 4.2 - Sewer Rising main 4.3 - Coil pipe permitted up to DN125 with Pipe lengths for larger DN 4.4 - Cream refer POP203 4.5 - PE100 only	Iplex	POLiPLEX	DN40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800						PE is preferred pipe material Pressure Sewer/ Rising main pipes shall be black with cream stripes Vacuum Sewer pipes shall be solid cream (co-extruded with the pipe)		
199			Vinidex	Sewertech	DN40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200								
200			David Moss Corporation	DAMOS	DN40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200								
201			Poly Pipe	SewerFlex	DN40, 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.	
202			Enviropipes	Enviropressure	DN40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000		For directional drilling installations, minimum SDR 9 (PN20 PE100) unless specified otherwise and install with tracer wire.						
203			Cromford	Identipipe	DN40, 50, 63, 90, 125, 180, 250, 315, 355, 450		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						NOT ACCEPTED BY SP
204			ACP	ACP	DN40, 50, 63, 90, 125, 180, 250, 315					Considered on case by case basis		Considered on case by case basis	PE is preferred pipe material Pressure Sewer/ Rising main pipes shall be black with cream stripes Vacuum Sewer pipes shall be solid cream (co-extruded with the pipe)
205			ASA		DN40, 50, 63, 90, 125					NOT ACCEPTED BY SP		NOT ACCEPTED BY SP	NOT ACCEPTED BY SP
206			Agru							Use is subject to acceptance by SP			
207			Pipemakers	Pipemakers	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800								
208	Clover	Clover/Rohr											
209	Acu-Tech	Acu-Tech									Considered on case by case basis		
210	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						Pressure Sewer /Rising main pipes shall be black with cream stripes Vacuum Sewer pipes shall be solid cream (co-extruded with the pipe)		
211			Acu-Tech	Acu-Tech						Considered on case by case basis		Use is subject to acceptance by SP	Use is subject to acceptance by SP
212			David Moss Corporation	DAMOS	DN40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200		For directional drilling and pipe bursting installations, minimum SDR 9 (PN20 HSCR PE100) unless specified otherwise and install with tracer wires.			Considered on case by case basis			
213			Vinidex	HSCR PE PIPE	DN40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200		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.			Acceptance yet to be determined		Acceptance yet to be determined	Acceptance yet to be determined
214			Enviropipes	Enviropipes	DN40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000					Acceptance yet to be determined		Acceptance yet to be determined	Acceptance yet to be determined
215	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	Accepted up to DN355			
216			David Moss Corporation	DAMOS	DN63 to DN1000		Spigot fittings only accepted		Considered on case by case basis	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
217	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										
218			Friatec / Vinidex	Frialen	DN63XDN32 to DN350XDN90								
219			Plasson										
220			Agru	AGRU	Up to DN630								
221			Fusion Group / FusionPlast	Fusamatic	Up to DN630			Spigot fittings only accepted				Flanged tees and flanged saddles are not accepted by SP	Flanged tees and flanged saddles are not accepted by SP
222			NUPIGECO	Elofit	DN20 to DN710			Use is subject to acceptance by SP					
223			Plastitalia S.p.A / Hydroflow	PLAST	Up to DN630								Use is subject to acceptance by SP
224			Plastitalia S.p.A / Advanced Piping Systems	PLAS	Up to DN630								Use is subject to acceptance by SP
225			Fox Fittings Sp. / Advanced Piping Systems	Fox	Up to DN630								Use is subject to acceptance by SP
226			Simona / Plasson	Simona	Up to DN500			Use is subject to acceptance by SP					Seamless sweep bends not accepted
227			Mako	Mako	Up to DN630								Only butt welded spigot fittings accepted
228	David Moss Corporation	DAMOS	Up to DN1000			Spigot fittings only accepted					Only butt welded spigot fittings accepted		
229	Fusion QLD	Flo Right	Up to DN450			Use is subject to acceptance by SP					Use is subject to acceptance by SP		
230	Guangdon Liansu / Crew Pipelines	Lesso	DN63 to DN800			Spigot fittings only accepted					Only butt welded spigot fittings accepted		
231	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						Use is subject to acceptance by SP			
232			Pipestar	Pipestar	Up to DN355		Butt Welded Fittings Stub flange may only to be used for DN450 and larger sizes.		Considered on case by case basis	Considered on case by case basis	Only sweep bends accepted.	Use is subject to acceptance by SP	
233			Enviropipes Pty Ltd	Enviropipes Pty Ltd	DN20 to DN1200			Acceptance yet to be determined		Acceptance yet to be determined	Acceptance yet to be determined		

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234	PE Flex Restraint Fitting (Used As Puddle Flange)	No WSA PS 1 - PN16 minimum	Georg Fischer	EF Flex Restraint	DN180 to DN1600	PE100 In accordance with manufacturer's requirements	Use is subject to acceptance by SP	Considered on case by case basis			Use is subject to acceptance by SP	
235			Plasson	Flex Restraint	DN180 to DN1600							
236	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	Corresponding full bore flange sizes for PE pipe up to DN355 shall be as per Clause 4.5 of the Water Supply Code	Considered on case by case basis	Considered on case by case basis	NOT ACCEPTED BY SP	Use of stub flanges is subject to acceptance by SP	
237			Plasson		DN80/DN100	Slotted flanges & backing rings suit both DN80 and DN100						
238			Iplex		Up to DN355	Full bore connections						
239			Friatec / Vinidex	Frialen	Up to DN180	Metal insert in the flange, backing rings not required	DN90 slotted flange is not accepted	Corresponding full bore flange sizes for PE pipe up to DN355 shall be as per Clause 4.5 of the Water Supply Code	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
240			Fusion Group / FusionPlast	Fusamatic	DN90 to DN450							
241			David Moss Corporation	DAMOS	Up to DN1200		Corresponding full bore flange sizes for PE pipe up to DN355 shall be as per Clause 4.5 of the Water Supply Code	Considered on case by case basis	Considered on case by case basis			
242	Rodney / Vinidex	Maxi Stub	Up to DN355	Full bore connection								
243	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	Considered on case by case basis	Considered on case by case basis		Use is subject to acceptance by SP	
244	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 to DN2159	RRJ unless otherwise approved Coating to be fusion bonded polyethylene minimum.	Accepted OD610 or larger	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	
245			Pipe Lining and Coating	Fusionkote	OD168 to OD3624	Lining to be fusion bonded polyethylene						
246	Steel Fittings To 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 to OD2500		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		
247			Pipe Lining and Coating	Fusionkote	OD168 to OD3624							
248	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	ASSDA accredited fabricators	N/A	DN100 to DN750	Min. Grade 316 Min. PN16 Flange to AS4087 Fig B5	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	
249			MM Kembla	KemPress	DN15 to DN100	Min. Grade 316 Min. PN16	Use is subject to acceptance by SP		Use is subject to acceptance by SP		Use is subject to acceptance by SP	
250	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			Use is subject to acceptance by SP		

SEWERAGE PIPES AND FITTINGS - PRESSURE

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE

November 2023 (Revision B)

ACCEPTED CIVIL PRODUCTS AND MATERIALS

	A	B	C	D	E	F	G	H	I	J	K	L
		Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
1												
280		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 to DN50 DN8 to DN100 DN8 to DN100 DN15 to DN50	BSPT threaded connections. Suitable for sewage	Use is subject to acceptance by SP	Considered on case by case basis		Use is subject to acceptance by SP	
281		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 to DN1400	DI Fittings to WSA PS 201 for Tees and Bends	Acceptance yet to be determined	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 Coupling - Grade 316 Stainless Steel (min.)
282		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 / lplex	Flowtite	DN300 to DN3000	DI Fittings to WSA PS 201 for Tees and Bends	Acceptance yet to be determined	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 Coupling - Grade 316 Stainless Steel (min.)
283	Global Pipe			Fiberstrong	DN300 to DN4000							
284	Superlit / Clover Pipelines			Superlit	DN300 to DN3000							
285		Flowmeter - Network Meter	No WSA PS 4.1 - Flange to AS4087 Figure 5 4.2 - PN16	Emerson	Emerson			Acceptance yet to be determined	NOT ACCEPTED BY SP	Considered on case by case basis	NOT ACCEPTED BY SP	
286	ABB			ABB		Considered on case by case basis		ABB Water master				
287	Siemens			Siemens			Use is subject to acceptance by SP					
288	E & H			E & H			E & H Promag W400	NOT ACCEPTED BY SP				
289	Krohne			Krohne		Acceptance yet to be determined	Considered on case by case basis	Acceptance yet to be determined		Acceptance yet to be determined		
290		Non-Return Valves To Ball Type	No WSA PS 1 - Class PN16 min 2 to Ductile Iron body 3 to SS316 bolts, nuts and washers 4 - Medium - Sewage 5 - Installation to 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 to DN600	Suitable for sewage service, vertical orientation only	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Considered on case by case basis	Use is subject to acceptance by SP	

A	B	C	D	E	F	G	H	I	J	K	L
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
291	Category: SEWERAGE MISCELLANEOUS ITEMS										
292	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			Refer Standard Drawings. Covers with another Service Provider's name not accepted. Use of Square and Rectangular Covers and Frames subject to SP approved based on Design needs	Concrete Infill Covers are NOT ACCEPTED BY SP	Concrete Infill Covers are NOT ACCEPTED BY SP 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 D/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	Concrete Infill Covers are NOT ACCEPTED BY SP Use is subject to acceptance by SP
293			EJ								
294			Webforge								
295			Civilmart								
296			Durham								
297			Hygrade								
298			Weldlok	Weldlok							
299	Ducast	Ducast									
300	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 to 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.	Considered on case by case basis. 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.	Use is subject to prior approval by SEQ-SP. Use is only applicable to raising existing maintenance hole access cover & frame.	
301	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	Considered on case by case basis	Use is subject to acceptance by SP		
302			Webforge	Webforge (DCC4D32)		DI - Class D					
303	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	Considered on case by case basis	Use is subject to acceptance by SP	
304			ACO SAKU			Composite - Class B					
305			Prime Composites			Composite to Class B and D					
306			EJ	EJ SERVO		Composite to Class B and D					
307	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 to generally, standard Maintenance structure covers, frames and risers shall be used on emergency storage maintenance holes	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Considered on case by case basis	Use is subject to acceptance by SP	
308	Step Irons	314 4.1 - Single Step 4.2 - Complies with Figure 5.10 of AS1657 4.3 - Steel bar internal with Plastic encapsulation or SS316 4.4 - Plastic encapsulation or SS316 4.5 - No reflectors required 4.6 - No other safety devices required	Miyama / Nextep	Miyama		M053	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	
309			Aymroo	Aymroo							
310			C & C Plastics / Havestock	Posistep							
311			Industrial Steps & Ladders	Sure-Step							
312	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> Revised installation procedure WSAA Product Update 1-2011, Subject to WSAA appraisal 5/11 and WSAA Product Alert 1-2010. Brackets as per manufacture specification. Fasteners to be SS316. Bright yellow.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	
313			Industrial Steps & Ladders	Add-A-Step							
314			Galvanised Steel								
315			Aluminium								
316			Stainless Steel			Refer to Standard Drawings					
317	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 PVCToU Riser Shaft	Configurations of "Central Axis" maintenance shaft (CAMS) are not accepted		Refer to clause 7.7.2 of the SEQ Sewerage Code		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 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
318	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	Considered on case by case basis. Size range DN150 to DN225 RIGSS only	Max depth of 5.0 meters is acceptable	
319	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	Ezlpit PA 09/01	DN425	Refer Standard Drawings Wavin Tegra 425 base + Ezlpit riser				NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER
320		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		DN300 x DN100to150 DN375 (300 riser) x DN225 DN300 Terminal MS	Refer Standard Drawings				NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER
321		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	REHAU		OD400toGD (Type H12) OD400toRML (Type H13)						
322	Maintenance Chambers Polypropylene	337 4.1 - DN600 Corrugated Risers 4.2 - DN600 PP Base, PP Riser, DICL Cone 4.3 - Riser pipe stiffness SN8 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	Ezlpit PA 09/01	DN600	Refer Standard Drawings Wavin Tegra 600 base + Ezlpit riser				NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER Max depth 6.0 meters to Invert of Sewer Pipe
323		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		NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER Max depth 6.0 meters to Invert of Sewer Pipe
324	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				Considered on case by case basis	NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER
325	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			Refer Standard Drawings.	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
326			Rocla		MH and MS DN150 and DN225 sewers	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.					
327			Civilmart	Civilmart (BCP Precast)							
328			Everhard								
329			Civilmart								
330	Pre-Cast Concrete Converter Top Slab	No WSA PS 1 - Refer Standard Drawings	Australian Quality Precast			Refer Standard Drawings.		Use is Subject to acceptance by SP			
331			Aquarius Precast			Calcareous aggregates to be used					
332			First Contact Civil Supplies								
333			Civilcast								Use is Subject to acceptance by SP

SEWERAGE MISCELLANEOUS ITEMS

A	B	C	D	E	F	G	H	I	J	K	L	
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
334	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 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	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	Acceptance yet to be determined	Considered on case by case basis	Use is subject to acceptance by SP		
335			Rehau	AWASHAFT	DN1000		Max. depth 6.0 meters to invert of sewer pipe. Not to be used in water charged areas.	Considered on case by case basis Max. depth 6.0 meters to invert of sewer pipe		NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER Max depth 6.0 meters to Invert of Sewer Pipe	
336			Iplex	Ezpit	DN1000		Use is subject to acceptance by SP				ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER Max depth 6.0 meters to Invert of Sewer Pipe	
337	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	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
338			Ingal EPS				Use is subject to acceptance by SP	Considered on case by case basis		Accepted Height 12.0 m		
339			McBerns				Use is subject to acceptance by SP	Considered on case by case basis		Use is subject to acceptance by SP		
340	Valve Box And Cover C.I. & D.I.	No WSA PS 1 - Refer details on SEQ Code Standard Drawing SEQ-WAT-1305-1	Viadux			Refer Water Code Standard Drawings for approved Valve Box and Cover Class D Cover Blumens coated to AS 3750.4						
341			NIBF									
342			Gatic / Milne									
343			Civilmart									
344			Hygrade Water	Hygrade Water								Only Class D accepted
345			Daemco									
346			Civil Pipes	Civil Pipes	As per drawing SEQ-WAT-1305-1 Type B	Use is subject to acceptance by SP						
347	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	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	
348			Gatic									
349			Civilmart									
350			Webforge									
351			Hygrade									
352			EJ									
353			Durham									
354			Ducast									
355			Mass Products (Aluminium)									
356	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	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	
357			EJ									
358			Terra Firma									
359			ACO SAKU									
360	Loose PE Sleeving To DI Pipe	320 4.1 Cream Colour to POP203	Viadux	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			
361			Crevet									
362	Embedment Material - Crushed Rock	351 4.1 - Single sized 4.2 - Nominal 5 or 7 mm										
363	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	
364	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										
365	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	
366	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		DN50 to 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	Considered on case by case basis	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	
367			Bermad									
368			Vent-O-Mat									
369			AVFI	ARV-3-N								
370			ISCO	Vent Master PX								
371			Odour Technologies	Vinloc-Smartvalve				VS-4 Smartvalve Accepted				

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 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
372	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 Flow & Industrial	Valmatic Swing-flex	DN50 to DN600	MIN. PN16, Thermal bonded polymeric coating	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP
373			Dobbie Dico	Dobbie Dico	DN80 to DN900						
374			AVK	AVK Swing Check Valve 41/25	DN50						
375			AVK	AVK Swing Check Valve 41/8X	DN80 to DN300						
376			Challenger Valves	Challenger - RSSC	DN80 to DN375						
377	AVFI Pty Ltd	AVFI - RSSC	DN50 to DN300	NOT ACCEPTED BY SP							
378	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 Flow & Industrial	Valmatic Swing-flex	DN50 to DN600	MIN. PN16, Thermal bonded polymeric coating	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP
379			Dobbie Dico	Dobbie Dico	DN80 to DN900						
380			AVK	AVK Swing Check Valve 41/25	DN50						
381			AVK	AVK Swing Check Valve 41/8X	DN80 to DN300						
382			Challenger Valves	Challenger - RSSC	DN80 to DN375						
383	AVFI Pty Ltd	AVFI - RSFC	DN80 to DN600	NOT ACCEPTED BY SP							
384	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	Deep Sewer Junction & Reinforced Fittings such as Oblique Junctions and House Connection Bends and Inspection Tees	DN100 to 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
385			Iplex								
386			Holman Industries								
387			M.E. Christensen								
388	PVC-U SN8 Long Radius Bends	236 4.1 - SN8 minimum 4.2.1 - DN150 only, 3.0 metres radius as a heat formed bend with standard socket and spigot RRJ ends. No ovality variation permitted. 4.2.2 - DN225 only, 3.0 metres radius preferred, spigot spigot ends as a heat formed bend or as a fibreglass wrapped fabricated bend with 7.5 degree segments with 300 mm to 400 mm segment length on inside springline 4.2.3 - All long radius bends by Certified fabricators to AS/NZS 1260 Section 6 4.3 - SBR & EPDM	Vinidex	Long radius 3000 mm bends	DN150 as bent pipe & DN225 as bent or fabricated pipe	AS/NZS 1260 SN8. DN150 Bends available from 5Deg to 45Deg. DN225 and larger individually fabricated to 45Deg.				NOT ACCEPTED BY SP	
389			Iplex								
390			Tri Underground								
391			Holman Industries								
392			M.E. Christensen								
393	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	Holman/Fabfit	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	
394			Plastec	Plastec							
395	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.			Considered on case by case basis	Use is subject to acceptance by SP	
396	PVC-U Heavy Duty Maintenance Hole Inspection Bends	230 4.1 - Plain wall 4.2 to 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
397	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				Use is subject to acceptance by SP				
398			Tapex								
399			Rain Harvesting	421							
400			Wenac								
401	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					
402	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	
403	Hydrophilic Seal			Hydrotite							
404				KuniSeal C-31 DS		Use is subject to acceptance by SP	Acceptance yet to be determined	Considered on case by case basis	Use is subject to acceptance by SP		
405	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	kwik-ZIP	HDX Series	Runner height of 38, 65, 90 and 125 mm	For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes	Use is subject to acceptance by SP		Considered on case by case basis	Use is subject to acceptance by SP	
406				HD Series	Runner height of 30, 50, 75 and 100mm 110mm OD to 355mm OD (untogroated 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					
407				HDX 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					

SEWERAGE MISCELLANEOUS ITEMS

A	B	C	D	E	F	G	H	I	J	K	L
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
408	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		Stainless Steel SP USE ONLY		Only Brass markers accepted
409	Camlock					S/Steel 316					Maximum DN100
410	Protective Internal Lining - Polyethylene	No WSA PS (refer WSA 201 Manual for Selection and Application of Protective Coatings)	Steuler		min. 2.5 mm thickness	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
411			Agusafe								
412			Bluey Technologies								
413			AKS								
414	Protective Internal Coating - Other Coating Types	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	Peerless Industrial Systems	Epigen 4029		Internal coatings at 2.0 mm thick via minimum of two coats to this requirement overrides Note G14 on SEQ-SPS-1402-1.		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)	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)
415				Epigen 1311 Ultra							
416			Sika Australia	Sikagard - 63N							
417			Hychem Epoxy Systems	Hychem TL5							
418			International Paints	Celcoat 2000 Flakeline							
419			ITWPF	Epirez 733UHB							
420			Fernco / JDP Applications	Ultracoat Epoxy Coating							
421			Interflow	Interchem CAC							
422			BASF	MasterSeal 7000CR							
423			Building Chemical Supplies	Ombran MHP Ombran MHP SP3000							
424		Parchem	Sewpercoat		Use is subject to acceptance by SP						
425	Protective External Coating	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	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) Refer Item 3 in Column C	Considered on case by case basis (minimum 2.0 mm thickness)	Use is subject to acceptance by SP	Use is subject to acceptance by SP (minimum 2.0 mm thickness)
426	Precast Concrete Packaged Sewage Pumping Stations	No WSA PS 1 - Suppliers to manage the project and to coordinate the construction	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 to 07 and 2019.COGC.STD.3200.01 to 07 submitted on 22/11/2019	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	DN1.80m DN2.25m DN3.20m and DN3.60m Use is subject to conditions - Refer to SP
427			Xylem		DN1.80m, DN2.20m and DN3.0m	Accepted as per Xylem CoGC version drawing set Sheet 1 to Sheet 13 submitted on 22/11/2019					DN1.80m DN2.20m DN3.00m and DN3.80m Use is subject to conditions - Refer to SP

SEWERAGE MISCELLANEOUS ITEMS

A	B	C	D	E	F	G	H	I	J	K	L	
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
428	Category: WATER SUPPLY PIPES - PRESSURE											
429	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 (Not 225)	Rieber ring accepted				Only accepted where PE is unsuitable	NOT ACCEPTED BY SP	
430			Vinidex	Hydro								
431			Viadux	Plaspipes								
432			Micron Pipelines	Micron Pipelines	DN100 to DN300 (Not 225)							
433			Pipemakers	Pipemakers Enviromain	DN100 to DN300 (Not 225)					Only accepted where PE is unsuitable		
434	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)	Iplex	Apollo Blue	DN100 to DN300 (Not 225)	Series 2 PN16, Min SN 10 MRS400 or MRS450	NOT ACCEPTED BY SP	SP USE ONLY	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	DN225 FOR SP USE ONLY	
435			Vinidex	Supermain								
436			Micron Pipelines	Micron Pipelines	DN100 to DN375 (Not 225)							
437			Pipemakers	Alphamain	DN100 to DN150 (Not 225)							
438				TOM®	Up to DN375 (Not 225)							
439	DI Pipe	200 4.1 - All Pressure Classes - see Column G 4.2 - As per SP's requirements to see Column H-L 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	Vinidex	ZAP-GP	DN250 to DN750 (not 225)	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	
440			Clover Pipelines	Clover/Xinxing (ZnAIRE400)								
441			Jindal SAW / Iplex		DN100 to DN750 (not 225)	Jindal SAW	Up to DN750 (not 225)	PN 35 and Flange Class, GP or SR lining	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 <u>not</u> 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
442			Jindal SAW / Iplex	Jindal SAW								
443			Xinxing / Iplex	Ironitite (XINAL400+ coating)								
444			Vinidex	ZAP-GP								
445			Saint-Gobain	PAM/TYTON Hydroclass Znalium								
446			Viadux	DIMAX/TYTONXCEL Z+	DN100 to DN750 (not 225)							
447			Clover Pipelines	Clover/Xinxing (ZnAIRE400)	DN100 to DN300 (not 225)							
448			Clover Pipelines	Clover/Samsun	DN100 to DN300 (not 225)				Use is subject to acceptance by SP			
449			Reece / Viadux	DIMAX/TYTON XCEED Z+	DN100 to DN750 (not 225)	PN35 and Flange Class 400g/m ² Zn/Al+100µm epoxy or min 900 micron Polyurethane external coating				Accepted where PE is unsuitable for reticulation mains. Accepted for mains > 300 NB. Seal coating required for all sizes.		
450			Jindal SAW / Iplex	Jindal SAW		Min 1300 micron Polyurethane internal lining			Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
451	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 to 700	Polyurethane internal protection	Detector Tape for ISO Pipe spirally wound along pipe and over PE sleeve.	Considered on case by case basis	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
452	Small DN Ductile Iron Water Main Pipe At PE ODs	No WSA PS 1 - PN16 minimum	Saint-Gobain PAM	BLUTOP	DN75toDN160	Restrained Joints PN16. Unrestrained joints PN25	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	
453	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	
454			Pipe Lining and Coating	Fusionkote	OD168, 219, 257, 273, 324 to 3624							
455	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	Considered on case by case basis	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	
456			Vinidex		DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200							
457			David Moss Corporation	DAMOS	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200							
458			Cromford	Identi-pipe	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450							
459			Poly Pipe		DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800							
460			Enviropipes	Enviropressure	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000							
461			ACP	ACP	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315							
462			Pipemakers	Pipemakers								
463			Clover	Clover/Rohr	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800							
464			Acu-Tech	Acu-Tech								
465	ASA	Blueline	DN25, 32, 40, 50, 63, 90, 125				NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Considered on case by case basis	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	

A	B	C	D	E	F	G	H	I	J	K	L
	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
1											
466	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	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP
467			Acu-Tech	Acu-Tech							
468			David Moss Corporation	DAMOS	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200						
469			Vinidex		DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200						
470			Enviropipes	Enviropipes	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000						
471	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
472	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 to DN1400	Minimum SN10000, PN16	Acceptance yet to be determined DI Fittings preferred	Considered on case by case basis DI Fittings preferred	Considered on case by case basis DI Fittings preferred	Use is subject to acceptance by SP	Use is subject to acceptance by SP
473	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 to DN3000	Minimum SN10000, PN16	Acceptance yet to be determined DI Fittings preferred	Considered on case by case basis DI Fittings preferred	Considered on case by case basis DI Fittings preferred	Use is subject to acceptance by SP	Use is subject to acceptance by SP
474			Global Pipe	Fiberstrong	DN300 to DN4000						
475			Superlit / Clover Pipelines	Superlit	DN300 to DN3000						
476	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 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	DN20 to DN750	Min. Grade 316. Min. PN16. Flange to AS4087 Fig B5	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	
477			MM Kembla	KemPress	DN15 to DN100	Min. Grade 316 Min. PN16					

A	B	C	D	E	F	G	H	I	J	K	L	
Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	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												
478	Lightweight DI Bends, Tees/Branches & Connectors	201 4.1 - Soc-Soc, Soc-FI & FI-FI 4.2 - Thinner wall Min PN16 fittings 4.3 - Restraint Joint Seals by SP approval 4.3 - SBR & EPDM	Viadux	Auslite and Sureflow (Light)	DN80 & DN150	Lightweight fittings - specific brand or word Lightweight or equivalent must be marked on each fitting Thermal bonded polymeric coating. All DI fittings to be wrapped		Acceptance yet to be determined			Use of Restrained Joint Rubber Rings (Tyton-lok) subject to acceptance by SP	
479			Dobbie Dico	Dobbie Series G2	DN100 to DN150							
480			Himgiri Castings/Galvin Engineering / CivilPipes	Ezy-Lift	DN100 & DN150							
481			Clover Pipelines	Clover	DN100 to DN150							
482			Reece	DIMAX (Lightweight)	DN80 to DN150							
483			Gillies / Hygrade	Gillies CL or Gillies LW	DN80 to DN150							
484			Derwent	Derwent (plus A or J or M)	DN80 to DN150							
485	AVK	Series 718 (Light)	DN80 to DN150									
486	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 - PN35 wall thickness for all fittings including PN16 flanged fittings 4.3 - Restraint Joint Seals by SP approval 4.4 - SBR & EPDM	Viadux	Tyton Joint & Sureflow (not Light)	DN80 to DN750	Traditional fittings DN225 not accepted Thermal bonded polymeric coating. All DI fittings to be wrapped		Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	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-lok) subject to acceptance by SP	
487			Crevet / Iplex	Crevet (not Crevet SL)	DN80 to DN750							
488			Vinidex	Superlink (not Superlink II)	DN300 to DN750 (not DN80 to DN250)							
489			Derwent Industries	Derwent (plus A or J or M)	DN200 to DN750 (not DN80 to DN150)							
490			Gillies / Hygrade	Gillies	DN80 to DN300							
491			Himgiri Castings/Galvin Engineering / CivilPipes	Galvin	DN80 to DN300							
492			Dobbie Dico	Dobbie Series G1 (not series G2)	DN100 to DN250							
493			Mallet	Mallet	DN80 to DN750							
494			Daemco	Daemco	DN80 to DN375							
495			Reece	DIMAX	DN200 to DN300 (not DN80 to DN150)							
496	AVK	Series 718 (not Light)	DN80 to DN750									
497	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 Eziab & Vari-Gib	Up to DN750	Long type only. All DI fittings to be wrapped. DI must have thermal bonded polymeric coating		Acceptance yet to be determined			Use of Restrained Joint Rubber Rings (Tyton-lok) subject to acceptance by SP	
498			Crevet	Gibault & Universal Multigib								
499			AVK	Gibault & Universal AVK Supa-Gib Couplings								Up to DN675
500			Viking Johnson	MaxiFit, QuickFit								
501			Derwent Industries	Derwent								DN100 to DN300
502			DEKS	DEKS FLEXI-GIB								DN80 to DN750
503			Daemco	Reinoversal								Up to DN600
504			Clover Pipelines	Connect VPC								DN100 to DN600
505	Civil Pipes	CPS Uni-Gib	DN80 to DN300									
506	Stainless Steel Flexible Couplings To Unrestrained	285 4.1 to Unrestrained for DI, AC, PVC, steel, GRP and concrete pipes 4.2 to PN16 min	Uniones Arpol SA / Global Pipe	ARPOL	DN150toDN1200	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	ARPOL INSTAL to Accepted ARPOL REP - SP USE ONLY	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
508												
509	DI Mechanical Couplings - 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 PN16 Restraint	DN50 to DN300	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.	Use is subject to acceptance by SP	SP USE ONLY Not accepted for use on PVC and GRP pipes End cap shall be used with thrust block	SP USE ONLY	Use is subject to acceptance by SP	The use of gripper type fittings on AC, DI and SCL pipe subject to acceptance by SP	
510			Georg Fischer	Multijoint 3000 Plus restraint		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.						
511			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.						
512			Nova Siria/Hygrade Water	Multigrip	DN350 to DN1400	Requires pipe stiffener insert to be installed when connecting to PN16 (SDR 11) PE100 pipe.						
513			Viking Johnson	UltraGrip	DN100 to DN300	Requires pipe stiffener insert to be installed when connecting to PN16 (SDR 11) PE100 pipe.						
514			Hawle / Hygrade Water	System 2000	DN63 to DN355	Does not require pipe stiffener inserts to be installed on PN16 (SDR 11) PE100 pipe.						
515			AVK	Supa Plus Restraint		Requires pipe stiffener inserts to be installed						
516	Viking Johnson	Aquafast and Aquagrip Restraint	DN63 to 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.								
517	Daemco	Xcel Restrained Coupling and Flange Adaptor	DN63 to DN315 for Coupling & DN63 to DN315 for Flange Adaptor	Does not require pipe stiffener inserts to be installed for PN16 (SDR 11) PE100 pipe.								
518	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.								

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1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
519	DI Flanged Telescopic Flexible Fitting	No WSA PS 1 - Aligned to WSA PS-201 and WSA PS-270 with Flanges to AS 4087 Figure B5 2 - To comply with WSA PS-201S when published	Hawle / Hygrade Water	Vario	DN50 to DN200		SP USE ONLY			SP USE ONLY	
520	Small DN Ductile Iron Restraint Fittings At PE ODs	No WSA PS 1 - PN16 minimum	Saint-Gobain PAM	IZIFIT	DN75 to DN160	For use directly with PE and BLUTOP pipe.	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
521	Pretapped Connectors	201 4.1 - Soc-Soc only 4.2 - Standard PN16 fittings 4.3 - Restraint Joint Seals by approval 4.4 - SBR & EPDM	Derwent	Derwent	DN100 to DN300	Thermal bonded polymeric coating DN100 to DN150 with 4 x 20BSP tappings at 2 per side and DN200 to DN300 1 x 50BSP tapping	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	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use of pretapped connectors is under review
522			Clover Pipelines	Clover	DN100 to DN150					Use is subject to acceptance by SP	
523			Viadux	Readytap	DN100 to 300						
524			Crevet / Iplex	Pretapped	DN100 & DN150						
525			Vinidex	Superlink	DN100 & DN150						
526			Himigiri Castings/Galvin Engineering / CivilPipes	Galvin	DN100 & DN150						
527			Daemco	Daemco	Up to DN300						
528	Viadux/Reece	DIMAX MaxiTap	DN100 to DN300	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined					
529	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.	Type R and Type F repair clamps are available in sizes of DN80 (88-98), DN100 (121-130), DN150 (176-183), DN200 (231-238), DN225 (258-265), DN250 (285-290) and DN300 (344-353) to all other sizes are Type R only.	Considered on case by case basis	Considered on case by case basis		Type R accepted only In acid sulphate soils the clamp must be Denso wrapped.
530			Viadux	Wang	DN100 to DN300					Use is subject to acceptance by SP	
531			Cascade Control	Rapid Clamps	DN40 to DN350					Use is subject to acceptance by SP	
532			Daemco	Norma Connect	DN80 to DN300					Only repair clamps accepted.	
533			AVK	AVK Series 748	Up to DN300					Only Type R offtake and repair clamps accepted. Offtake clamps accepted to be used where under pressure connection is approved by SP.	
534			Derwent		Up to DN300					Only Type R repair clamps accepted.	
535			Cascade Control	Rapid Clamps CT2 tapping saddles	DN125 to DN355					Use is subject to acceptance by SP	
536	Flange (DI) Off-Take Clamps For DI/OD 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	SP USE ONLY	SP USE ONLY	Only DN100 flange offtake accepted	
537	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 Srial/Hygrade Water	Duofit	DN300 to 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
538			Hygrade Water Australia	cQuick Encapsulation Repair collar	DN80 to DN200						
539			AVK	Series 208 Encapsulation Repair collar	DN80 to DN200						
540	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	Hawle/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	Considered on case by case basis	SP USE ONLY	Where fitting is used as a hydrant tee, fitting is to be installed as an under pressure cut-in connection	
541			Derwent	Uniclamp	DN125 and DN180						

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542	Resilient Seated Gate Valves, Thermal Bonded Polymeric Coating.	<p>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 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 570 (Lead Free) Series 55	Up to DN400 Up to DN600 DN80 to DN300 (FltoFI & SoctoSoc) DN450 to DN600	<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>	DN500 and DN600 with DN100 By-pass DN750 with DN150 By-pass	FI to Soc valves are not accepted FL-FL integral bypass valves are considered on case by case basis		Use is subject to acceptance by SP			
543			Hawle / Hygrade Water	E2 E2 System 2000	DN100 to DN200 DN50 to DN300								
544			Hawle / Hygrade Water	E3 (FL-FL)	DN100 to DN300								
545			Viadux	Series 500 Auslite Auslite II Bayard Sureflow Auslite III	Up to DN600 DN80, 100 & 150 DN100 to DN300 DN50 to DN200 Up to DN600								
546			Karon / Challenger	Karon Karon (FL-FL light weight design) Karon (FL-FL integral bypass valves)	DN80 to DN600 DN80 to DN300 DN450 to DN600				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	
547			AVFI		DN80 to DN600							Use is subject to acceptance by SP	NOT ACCEPTED BY SP
548			Betta	BETTA	DN80 to DN600								
549			AAP Industries	Maxflo/appFLO	DN80 to DN300								
550			Derwent Industries	Derwent	DN80 to DN600								
551			DAEMCO		DN80 to DN300 for SoctoSp DN80 to DN375 for FL				DN500 and DN600 with DN100 By-pass DN750 with DN150 By-pass	FI to Soc valves are not accepted FL-FL integral bypass valves are considered on case by case basis			
552			Reece	DIMAX	DN80 to DN600 (FltoFI with bypass) DN100 to DN300 (SoctoSoc) DN100 to DN300 (SptoSp) DN100 to DN150 (FltoSoc)								
553				<p>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 4.6 - Integral By-pass on DN450 and larger (Not accepted by Unitywater and Urban Utilities) 4.7 - For Urban Utilities, RSGVs shall only be used on mains ≤ 300 NB</p>	AVK		Series 36/80	Up to DN300	<p>All valves shall be restrained. All DI fittings to be wrapped.</p>				NOT ACCEPTED BY SP
554	Betta	Betta			DN100 & DN150								
555		<p>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) 4.9 - For Urban Utilities, RSGVs shall only be used on mains ≤ 300 NB</p>	AVK	Series 01/71	Up to DN300	<p>All valves shall be restrained. All DI fittings to be wrapped.</p>					<p>Use of gripper type RSGVs is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations</p>		
556			Hawle	E2 System 2000	DN50 to DN300								
557			Betta	BETTA	DN100 to DN300								
558			Derwent Industries	Derwent	DN100 to DN150								
559			DAEMCO		DN100 to DN150								
560		<p>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 4.10 - For Urban Utilities, RSGVs shall only be used on mains ≤ 300 NB</p>	Reece	DIMAX	DN80 to 300 (FLtoFL)	<p>PN25 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>	Use is subject to acceptance by SP		Use is subject to acceptance by SP				
561		<p>283 1 - PN16 resilient seated gate valves for under pressure line stopping application for water supply 2 - For Urban Utilities, RSGVs shall only be used on mains ≤ 300 NB</p>	Daepoong/ CNS Engineering	S- Gate Valve	DN100 to DN450	<p>Valve for Underpressure Line Stopping, suitable for rigid pipes with CIOD 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>	SP USE ONLY	SP USE ONLY	SP USE ONLY	SP USE ONLY	SP USE ONLY		
562		No WSA PS	Interflow	Infrastop	DN80 to 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. Not applicable on PE pipes</p>	Acceptance yet to be determined	SP USE ONLY	SP USE ONLY	Acceptance yet to be determined	SP USE ONLY		

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563	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 4.10 - For Urban Utilities, MSGVs shall only be used on mains > 300 NB	AVK	Series 580	DN375 to 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
564				Sureflow Series 2580	DN375 to DN600						
565	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		Considered on case by case basis	NOT ACCEPTED BY SP	Use is subject to acceptance by SP
566	Butterfly Valves	263 4.1- PN16 4.2- Resilient seated wafer, lugged or double flanged	Iplex	AVK	DN50 to DN600 for wafer/ lugged DN100 to DN1000 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 to 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 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: Anti-clockwise for valves with gearbox operator. Clockwise for valves with lever operator. Wafer or Lugged valves not accepted without prior approval
567			Emerson / Viadux	Keystone							
568			Ebro	Ebro							
569			AVFI	AVFI							
570			HMA Flow & Industrial	Valveco							
571			Challenger	Challenger							
572			Reece	DIMAX							
573			Hydroflow Distributors	Watts							
574			Reece	Dura	DN50 to DN300		Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Direction of closing: Anti-clockwise for valves with gearbox operator. Clockwise for valves with lever operator. Wafer or Lugged valves not accepted without prior approval SP USE ONLY	
575	Hydrants	267 4.1 - DN100 Flanges	AVK	Series 30/00 non-swab and 30/10 for swab	DN80 flange for SP Use Only. 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.	Swab type only accepted. DN100 flanged to AS 4087 Fig B5.	Swab type only accepted. All new hydrants are to be 100 mm with 100 mm flanges, 100 mm risers and spring heads
576			Viadux	Sureflow							
577			Civil Pipe Supplies	BETTA normal & Swab							
578			AAP Industries	MAXIFLO/appFLO							
579			Derwent Industries	Derwent standard and Swab							
580			Dobbie Dico								
581			Weflo Valve / Reece	DIMAX							
582	Ant Barrier Devices For Hydrants	No WSA PS Compliance with AS/NZS 4020	Hydrant Protection	Hydraguard			Use is subject to acceptance by SP	Considered on case by case basis	SP USE ONLY	Use is as directed by SP	
583				Retroguard							
584	Debris And Ant Barrier Device	No WSA PS	Hydrant Services	Ant and Debris Barrier			Use is subject to acceptance by SP	Considered on case by case basis	SP USE ONLY	Use is as directed by SP	
585	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 to 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	Considered on case by case basis	Use is subject to acceptance by SP	Mandatory for Hydrants on Trunk Water mains >DN300 Isolator Valve for Hydrant - Min. DN100 Clockwise Opening Direction
586			Viadux								
587			Betta / Clover Pipelines	Betta							
588			Crevet								
589	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 Blumen 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	
590			Gatic / Iplex								
591			Civilmart								
592			Viadux								
593			Hygrade Water	Hygrade Water							
594			Daemco								
595	Civil Pipes	Civil Pipes		As per drawing SEQtoWATto1305to1 Type B							

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1											
596	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 Bäumen coated to AS 3750.4	Lids colour yellow are preferred to be painted in factory			Only Class D accepted	
597			NIBF / Iplex								
598			Civilmart								
599			Viadux								
600			Hygrade Water	Hygrade Water							
601			Daemco		As per drawing SEQtoWATto1305to1 Type B						
602			Civil Pipes	Civil Pipes			Use is subject to acceptance by SP				
603	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
604			Replas / Crevet								
605			Replas / Vinidex								
606			Replas / Civil Pipes								
607	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
608			Daemco	Daemco							
609	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	Acceptance yet to be determined	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP
610			NIBF / Iplex								
611			Forge Bros / Vinidex								
612			Challenger								
613			Daemco								
614			ANT Infrastructure Technologies	ANT	Up to DN300				Considered on case by case basis		Use is subject to acceptance by SP
615	Steel Fittings To 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 to OD2500			Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	
616			Pipe Lining and Coating	Fusionkote	OD168 to OD3624						
617	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	
618	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					
619			NIBF / Iplex								
620	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								
621	Bolts	No WSA PS 1 - Refer details on SEQ-WAT-1313-1				316 Stainless steel bolts					
622	PE Mechanical Compression Fittings For Reduced Size Water Mains	208 DN63 2(a) - AS/NZS4129 or EN 1254 acceptable Certification 4.1 - PN16 minimum 4.2 - Mechanical Polyethylene, Polypropylene or Copper Alloy both with approved Plastic grippers/olives/thimbles 4.3.1 - Transition - PE to Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4.3.2 - Coupling - PE to PE 4.4 - Flange not used 4.5 - SBR & EPDM	George Fischer			DN63 Metal male fittings connecting to plastic female fittings is not accepted	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP
623			Philmac / Philmac & Vinidex								
624			Plasson								
625			Talbot								
626			Alprene								
627			Iplex								
628			Viadux								
629			Hydroflow / SAB S.p.A	SAB Black Nut Blueseal							
630			Viega	Geopress K							
631	Zetco TOF					Only fittings with a Copper Alloy body and a Copper Alloy compression nut are approved for use	Acceptance yet to be determined		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	
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
632	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 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	
633			Georg Fischer	ELGEF Plus Draw - Lock								
634			Friatec / Vinidex	Frialen	Up to DN630							
635			Agru	Agru	Up to DN630							
636			Fusion Group / FusionPlast	Fusamatic	Up to DN630							
637			NUPIGECO	Elofit	DN20 to DN710							
638			Plastitalia S.p.A / Hydroflow	PLAST	Up to DN630							
639			Plastitalia S.p.A / Advanced Piping Systems	PLAS	Up to DN630							
640			Fox Fittings Sp. / Advanced Piping Systems	Fox	Up to DN630							
641			Mako	Mako	Up to DN630							
642			Simona / Plasson	Simona	Up to DN500							
643			David Moss Corporation	DAMOS	Up to DN1000							
644	Fusion QLD	Flo Right	Up to DN450									
645	Guangdon Liansu / Crew Pipelines	Lesso	DN63 to DN800									
646	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	Considered on case by case basis	Accepted up to DN355. Hydrant saddles shall only be installed as an under pressure cut-in connection		
647			David Moss Corporation	DAMOS	DN63 to DN1000		Spigot fittings only accepted. Accepted where PE pipes are approved to be used.				Acceptance yet to be determined	Acceptance yet to be determined
648	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 to be used for DN450 and larger sizes.	Accepted where PE pipes are approved to be used	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP		
649			Pipestar	Pipestar	Up to DN355		Use is subject to acceptance by SP			Only sweep bends accepted.	Use is subject to acceptance by SP	
650			Enviropipes Pty Ltd	Enviropipes Pty Ltd	DN20 to DN1200		Acceptance yet to be determined			Acceptance yet to be determined	Acceptance yet to be determined	
651	Copper Compression Fittings	No WSA PS	Viega	Propress	DN15 to 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	
652			MM Kembla	KemPress						Use is subject to acceptance by SP		
653	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 for DN63. The use of larger diameter is considered on case by case basis	Considered on case by case basis	NOT ACCEPTED BY SP		
654			Plasson		DN80 / DN100	DN90 riser with slotted flanges suit both DN80 & DN100 flanged hydrants				Use of stub flanges is subject to acceptance by SP		
655			Iplex		Up to DN355	Full face full bore connections	Corresponding full bore flange sizes for PE pipe up to DN355 shall be as per Clause 4.5 of the Water Supply Code				Use is subject to acceptance by SP	Use is subject to acceptance by SP
656			Friatec / Vinidex	Frialen	Up to DN180	Metal insert in the flange, backing rings not required						
657			Fusion Group / FusionPlast	Fusamatic	DN90 to DN450		Accepted where PE pipes are approved to be used Only DN125 to DN355 accepted Corresponding full bore flange sizes for PE pipe up to DN355 shall be as per Clause 4.5 of the Water Supply Code					
658			David Moss Corporation	DAMOS	Up to DN355		Accepted where PE pipes are approved to be used Corresponding full bore flange sizes for PE pipe up to DN355 shall be as per Clause 4.5 of the Water Supply Code					
659		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 Corresponding full bore flange sizes for PE pipe up to DN355 shall be as per Clause 4.5 of the Water Supply Code	Considered on case by case basis	Considered on case by case basis	Use of stub flanges is subject to acceptance by SP		

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE

November 2023 (Revision B)

ACCEPTED CIVIL PRODUCTS AND MATERIALS

A	B	C	D	E	F	G	H	I	J	K	L
	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
660	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 Kingston Bridge / Iplex			Comply with AS4129	Accepted where PE pipes are approved to be used	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
661											
662	Air Valves	265	ARI Flow control			Min PN16	DN40 and DN50 BSP threaded to have Brass base	DN40 and DN50 BSP threaded to have Brass base.	Considered on case by case basis DN40 and DN50 BSP threaded to have Brass base.	Use is subject to acceptance by SP	
663			Bermad			Plastic body only permitted for DN20 and DN25					
664			Vent-O-Mat		DN20 to DN200	Double Orifice as required,					
665			AVFI	DAV-MH		Thermal bonded polymeric coating					
666			ISCO	Vent Master PX				NOT ACCEPTED BY SP			
667	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 Flow & Industrial	Valmatic Swing-flex	DN50 to DN600		NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	
668			Dobbie Dico	Dobbie Dico	DN80 to DN900	Thermal bonded polymeric coating					
669			AVK	AVK Swing Check Valve 41/25	DN50						
670			AVK	AVK Swing Check Valve 41/8X	DN80 to DN300						
671			Challenger Valves	Challenger - RSSC	DN80 to DN375						
672	AVFI Pty Ltd	AVFI - RSSC	DN50 to DN300								
673	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 Flow & Industrial	Valmatic Swing-flex	DN50 to DN600	Min. PN16. Thermal bonded polymeric coating	NOT ACCEPTED BY SP	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	
674			Dobbie Dico	Dobbie Dico	DN80 to DN900						
675			AVK	AVK Swing Check Valve 41/25	DN50						
676			AVK	AVK Swing Check Valve 41/8X	DN80 to DN300						
677			Challenger Valves	Challenger - RSSC	DN80 to DN375						
678			AVFI Pty Ltd	AVFI - RSFC	DN50 to DN300				Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
679	Pressure Reducing Valves	268 See Appendix B of AS5081:2008	Bermad Water Technologies	Bermad	DN40 to 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	Considered on case by case basis	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).
680			Singer / HMA Flow & Industrial	Singer							
681			Plasson Australia Pty Ltd	Plasson C-Valve							
682			Dorot Australia Pty Ltd	Dorot 300 Series							
683			Cla-Val Pacific / Challenger	Cla-Val	DN25 to DN1200						
684	Pressure Sustaining Valves And Altitude Valves	268 See Appendix B of AS5081:2008	Bermad Water Technologies	Bermad	DN40 to DN900	Min PN16. Thermal bonded polymeric coating	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP
685			Singer / HMA Flow & Industrial	Singer							
686			Dorot Australia Pty Ltd	Dorot 300 Series	DN25 to DN1200 (Sustaining)						
687			Cla-Val Pacific / Challenger	Cla-Val	DN80 to DN1200 (Altitude)						
688	PE Flex Restraint Fitting (Used As Puddle Flange)	No WSA PS 1 - PN16 minimum	Georg Fischer	EF Flex Restraint	DN180 to DN1600	PE100 In accordance with manufacturer's requirements	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
689			Plasson	Flex Restraint	DN180 to DN1600						
690	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	Considered on case by case basis	Considered on case by case basis		Use is subject to acceptance by SP
691	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	Acceptance yet to be determined	Considered on case by case basis	Use is subject to acceptance by SP	Uni-flange to be used within pit or aboveground locations only
692			Viking Johnson				Dismantling joints shall be restrained type only and for Meter Assemblies only. Use of uni-flange is subject to acceptance of SP.				
693			HMA Flow & Industrial	Uni-Flange Adaptor	DN50 to DN500		Uni-flanges shall be for meter assemblies only				
694			Hygrade Water	Pipemate	DN80 to DN900		For Meter Assemblies only, restrained type only				
695			AVFI	AFD10 Series	DN80 to DN1200		For Mains only, restrained type only				
696			AVFI	AFD20 Series	DN80 to DN1200		For Meter Assemblies only, restrained type only				
697			IPLEX	Crevet	DN80 to DN750	Acceptance yet to be determined	For Meter Assemblies only, restrained type only To be used within pit or aboveground locations only	Acceptance yet to be determined			
698	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	Considered on case by case basis	NOT ACCEPTED BY SP	ABB Water master Use is subject to acceptance by SP
699			ABB	ABB							
700			Siemens	Siemens							
701			E & H	E & H							
702			Krohne	Krohne							
						Acceptance yet to be determined	Considered on case by case basis	Considered on case by case basis	Acceptance yet to be determined	Acceptance yet to be determined	

A	B	C	D	E	F	G	H	I	J	K	L	
Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	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 SERVICES												
703	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									
704			Gatic / Milne									
705			RMC								RMC tapping band also accepted on AC pipe	
706			Clover	Clover	DN100 to DN300 Type F for PVC (S2 only) and AC pipes		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					SP USE ONLY
707			Hydroflow	P & I	DN100 to DN200 Type F for PVC (S1&2) and AC pipes						Use is subject to acceptance by SP	
708			4N Products & Stockbrands	4N	DN100, 150, 200		Positive stops, coloured blue	NOT ACCEPTED BY SP		Considered on case by case basis		Use is subject to acceptance by SP
709	Austworld	TPAB10020	TPAB10025	DN100 Type F for PVC (S2 only) and AC pipes, outlet size DN20	DN100 Type F for PVC (S2 only) and AC pipes, with DN25 outlet	Use is subject to acceptance by SP	Acceptance yet to be determined	Considered on case by case basis	RMC tapping band also accepted on AC pipe	SP USE ONLY		
710												
711	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 to DN315	Gunmetal - Positive stops Only for where E-F saddles are not practicable	NOT ACCEPTED BY SP				NOT ACCEPTED BY SP	
712			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		
713			Hawle / Hygrade Water	Haku	DN63 to DN315	Ductile iron lower half						
714			Hawle / Hygrade Water	Haku	DN280 to 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
715			Derwent	Uniclamp	DN125 and DN180	Only for where E-F saddles are not practical						
716	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	DN63 to DN180	Only for where E-F saddles are not practical	Use is subject to acceptance by SP	Considered on case by case basis	Considered on case by case basis			
717	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.					
718			George Fischer				Use is subject to acceptance by SP					
719			Friatec / Vinidex	Friaten	Up to DN355		Accepted where PE pipes are approved to be used	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Flanged saddles are not accepted by SP	Flanged saddles are not accepted by SP	
720			Fusion Group / FusionPlast	Fusamatic	Up to DN315		Use is subject to acceptance by SP					
721	Tapping Saddle For PE - Electrofusion - High Stress Crack Resistant (HSCR)	310 4.1 - Pipe DN125 to DN355 to 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 DN315	Use is subject to acceptance by SP				Use is subject to acceptance by SP		
722												
723	Ferrules - TPFNR Bonnet Ferrule Cocks	288 4.1 - PN16 4.2 - DN50 to include a 90 degree bend with union connection to AS3688 at outlet 4.3 - Male thread and PE compression joint 4.4 - Male thread and PE compression joint, or Copper compression joint, or capillary joint	Agru	Agruline	Up to DN250	Comply with AS4129 PN16	Accepted where PE pipes are approved to be used	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP		
724			Gatic / Milne	Elster	RMC	Strongcast	TPFNR Tapping Valve	DN20	Dezincification resistant material and comply with AS/NZS 3688	Only DN20 and 25 accepted	SP USE ONLY	
725												
726												
727	Wenac						Use is subject to acceptance by SP	Considered on case by case basis	Considered on case by case basis	Acceptance yet to be determined	Acceptance yet to be determined	
728	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		Both M/F thread and PE compression joints are accepted			NOT ACCEPTED BY SP		
729			Elson	Elson (Lead-free)						Use is subject to acceptance by SP	Use is subject to acceptance by SP	
730			Gatic / Milne									
731			Elster									
732			RMC									
733			Zetco TOF									
734			Strongcast	Strongcast	DN20 & DN25		Copper alloy shall be dezincification resistant material and comply with AS/NZS 3688				Accepted for DN20 & DN25	Ball valves must be capable of being locked by the customer with their own padlock AND have minimum 50mm long handles
735			Austworld	LOGI VALVE								
736			Galvin Engineering	Galvin Engineering								
737			Flocontrol	Arita	DN32 to DN50							
738	Austworld	LOGI VALVE										
739	Zetco	4406 Series	DN25, DN32, DN40 & DN50									
740	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									
741			Elster			25 mm Dezincification resistant material and comply with AS/NZS 3688	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP			
742			RMC									
743	Slip Coupling	No WSA PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3565.1, AS 3718 and AS 3688. 2 - PN 16 3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4 - Watermark acceptance 5 - Coupling to have 5mm to 20mm movement with locking nut	Elster		DN20 and DN25	Dezincification resistant material and comply with AS/NZS 3688.	DN25 only is accepted					
744			RMC			Shall have a locking nut and a metallic stopper to prevent moving apart or kinking between the moving parts	NOT ACCEPTED BY SP	Considered on case by case basis	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	
745			Austworld					Both configurations of individual and combined with ball valves are accepted				

A	B	C	D	E	F	G	H	I	J	K	L		
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater		
748	Transition Couplers	208 or 247 Up to DN63 2(a) - AS/NZS4129, EN1254 or equivalent acceptable Certification 4.1 - PN16 minimum 4.2 - Mechanical Polyethylene or Copper Alloy both with approved Plastic grippers/olives/thimbles 4.3.1 - Transition - PE to Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4.3.2 - Coupling - PE to PE not used 4.4 - Flange not used 4.5 - SBR & EPDM	Plasson			PE electro-fusion to BSP connections Metal male fittings connecting to plastic female fittings is not accepted		Considered on case by case basis		Use is subject to acceptance by SP	Push fitting not accepted by SP		
749			Georg Fischer										
750			Friatec / Vnidex										
751			Viega	Geopress K	Up to DN63		Use is subject to acceptance by SP						
752			Philmac	Transition UTC	DN20		Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined			
753	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. Talbot fittings not accepted. Push type fittings only accepted with the approval of Logan City Council.	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.		
754			Philmac / Philmac & Vnidex										
755			Plasson										
756			Elster	TITA								DN25	Only fittings with a Copper Alloy body and a Copper Alloy compression nut are approved for use
757			Zetco TOF									DN25 to DN63	
758			Talbot										
759			Alprene										
760			Hydroflow / SAB S.p.A	SAB Black Nut Blue Seal								DN25 to DN63	
761			Iplex										
762			Viadux										
763			NUPIGECO	Elopress									
764	Austworld	LOGI CIVIL	DN25 & DN32										
765	Viega	Geopress K	DN25 to DN63										
766			Strongcast	Strongcast	DN25 & DN32		Only fittings with a copper alloy body and a copper alloy compression nut are accepted for use		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		
767	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	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Only accepted for above ground installation	NOT ACCEPTED BY SP		
768			Elster / Honeywell	V200									
769			Itron	TD8									
770			RMC	WM273MRP multijet									
771			RMC	WM281MRP multijet									
772			GVT	TPWM									
773			Xylem	Sensus model 620									
774			Xylem	Sensus iperl									
775	Itron	Intelis											
776	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 Accuracy Class 2 Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Horizontal and Vertical orientation	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Only accepted for above ground installation	NOT ACCEPTED BY SP		
777			Elster / Honeywell	V200									
778			Itron	TD8									
779			RMC	WM271MRP multijet									
780			Xylem	Sensus iperl									
781	Itron	Intelis											
782	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 Accuracy Class 2 Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Horizontal and Vertical orientation	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Only accepted for above ground installation	NOT ACCEPTED BY SP		
783			Elster / Honeywell	V200									
784			Itron	TD8									
785			RMC	MRP									
786			Xylem	Sensus iperl									
787			Itron	Intelis									
788	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 Accuracy Class 2 Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Shall be supplied with integral reverse flow restrictor Horizontal and Vertical orientation	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Only accepted for above ground installation	NOT ACCEPTED BY SP		
789			Elster / Honeywell	V200									
790			Itron	Flostar M									
791			RMC	WM400 / V100 (PSM-T)									
792			Xylem	Sensus iperl									
793	Itron	Intelis											
794	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		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	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Above ground installation with external top accessible (basket type) inline strainers	NOT ACCEPTED BY SP		
795			Elster / Honeywell	H5000									
796			Arad / RMC	Woltman Silver Turbo									
797			Itron	Flostar M									
798			Itron	Woltex									
799			Sensus	Meistream									

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1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
800	Inline Strainer	No WSA PS	Elster	Kent H4010 Strainer	Up to DN150	PN16	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	Only Flat-top accepted	
801			RMC		Up to DN150	FI-FI					
802			Hydromet		Up to DN200	Top entry basket Type					
803			Virginia Metals		Up to DN200						
804	Y Strainer	No WSA PS	Emerson	VALVCHEQ	DN65 to DN300	PN16 Fusion bonded epoxy coated ductile iron	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 Ductile iron is preferred
805			AVFI	AS105F Cast Iron Y Strainer	DN50 to DN300						
806			Austworld	DR W/Mark	DN40 to DN50						
807	Flowmeters 50 mm And Larger	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.	NOT ACCEPTED BY SP	Considered on case by case basis	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
808			Siemens Electromagnetic	Siemens Mag 8000 Advanced		Purple body for non-drinking water. Accuracy Class 1 or Class 2.	R=400. DN100 & DN150 to Horizontal and Vertical orientation, DN200 and larger to Horizontal orientation only.				
809			Siemens Ultrasonic	Siemens		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy					
810			E & H Electromagnetic	E & H Promag W400							
811			E & H Ultrasonic	E & H			NOT ACCEPTED BY SP				
812			Emerson	Emerson							
813			ABB	WaterMaster AquaMaster							
814	Sensus	Cordonell			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		
815	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	Refer to Logan Water Sub-metering for Multi-Unit Properties Guidelines		NOT ACCEPTED BY SP	NOT ACCEPTED BY SP
816			Epitomy	Epitomy							
817			Utility Technology	Utility Technology							
818			Halytech	Spider		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy					
819			Ausmeter	Ausmeter			NOT ACCEPTED BY SP				
820			Itron	Everblu			Use is subject to acceptance by SP				
821			SUMS	Vivid Multi Logger							
822	Strongcast: Wired/Wireless	Strongcast: Wired/Wireless			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		
823	Meter Boxes To Class A	No WSA PS 1 - Lids Virgin HDPE with Box Virgin and/or regrind HDPE 2 - Lid in Box at Class A to AS 3996 3 - Lid shall have a slip resistant pattern that is certified to AS/NZS4586 for Table 2 (Class W) and Table 5 (Classification R11). 4 - Lids shall snap-lock into the box and shall include a metal device for Location and a separate 2 mm Galvanised Chain or 2 mm SS304 wire rope fixed to the lid and box. 5 - The Lid shall have moulded on it's upper surface Water Meter and shall be coloured as per SEQ-SP's requirements.	Everhard Industries		368L * 271W * 316D (for 20 mm meters only)	Blue, Black or Green meter box lids	Blue Lid not permitted. 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
824			Everhard Industries		492L * 271W * 316D						
825			Draper		440L * 275W * 280D						
826			Strongcast		427L * 267W * 316D						
827			All Valve Industries	AVMB	445L * 288W * 320D						
828	Everhard Industries		429L * 271W * 220D	Use is subject to acceptance by SP	Acceptance yet to be determined	SP USE ONLY	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
829	Meter Boxes To 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
830	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	
831			Watts	SDCV	DN80 to DN200		Acceptance yet to be determined				
832	Double Check Valve (DCV), Double Check Detector Assembly (DCDA)	No WSA PS 1 - Certified to AS/NZS 2845	Emerson	VALVCHEQ			Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Considered on case by case basis	Use is subject to acceptance by SP	
833			Bermad	Cla-Val	DN40, 50, 100 & 150						
834			Hydroflow Distributors	Watts							
835	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
836			RMC	KIT235 WMKIT235		All components shall be approved fittings No Slip couplings					

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837	Pre-Assembled Single Meter Boxes	No WSA PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Strongcast	SCMBA20	DN20	Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy. All components shall be approved fittings. No slip couplings.	Accepted assemblies are: GCSCMB-2PE/TD8 to with meter, brass PE ends, standard supply. SCMB-2PE to without meter, brass PE ends, standard supply. GCSCMB-2BSP/TD8 to with meter, thread ends, supply on request only. SCMB-2BSP to without meter, thread ends, supplied on request only	Acceptance of flat faced nuts yet to be determined. Install approved pre-assembled boxes as per SEQ-WAT-1110 set	Only to be installed as per SP requirements Blue Lid not permitted	V200 meter only. No slip coupling	Use is subject to acceptance by SP	
838			Elster				Accepted assemblies are: 46491-25 to with meter, brass PE ends, standard supply. 46491-26 to without meter, brass PE ends, standard supply. 46491-22 to with or without meter, thread ends, supply on request only					
839			RMC	KIT236 WMKIT236			Accepted assemblies are: KIT238 to without meter, brass PE ends, standard supply. WMKIT238 to with meter, brass PE ends, standard supply. KIT237 to without meter, thread ends, supply on request only. WMKIT237 to with meter, thread ends, supply on request only					
840			All Valve Industries	AVMB-2BSP/TD8 AVMB-2PE/TD8			Accepted assemblies are: AVMB-2PE to with/without meter, brass PE ends, standard supply. AVMB-2BSP to with/without meter, thread ends, supply on request only.					
841			Strongcast	SCMB-2BSP			DN25					Accepted without meter for submetering application only. A blank perforated bridging piece in place of the water meter. Not accepted for residential subdivision.
842			Strongcast	SCMB18SP32			DN32					Use is subject to acceptance by SP
843	Sub-Meter Assemblies - Wall Mount Brackets	No WSA PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Elster	46491-00	DN20	Drinking or Non-drinking Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy For wall bracket assemblies the wall bracket shall be stainless steel rigid type	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Install approved sub-meter assemblies as per SP requirements	Only accepted with no slip coupling	Slip Coupling not accepted	
844			All Valve	SMA20M								Use is subject to acceptance by SP
845			Strongcast	SCMLIM20								Use is subject to acceptance by SP
846			Austworld	SMK05								Accepted with the use of approved slip couplings
847				SMK with Telescopic slip coupling								Install approved sub-meter assemblies as per SP requirements
848			RMC	KIT227								Use is subject to acceptance by SP
849			RMC	KIT227Q								Considered on case by case basis
850			Elster	46492-00								Accepted with the use of approved slip couplings
851			Austworld	SMK06								NOT ACCEPTED BY SP
852				SMK07 with Telescopic slip coupling								Use is subject to acceptance by SP
853	Strongcast	SCMLIM25Q	NOT ACCEPTED BY SP									
854	Strongcast	SCMLIM32Q	DN32	NOT ACCEPTED BY SP								
855	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	VALVCHQ	DN32	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	Use is subject to acceptance by SP	
856			Hydroflow Distributors	Watts			Use is subject to acceptance by SP					
857	Reduced Pressure Zone Device (RPZD), Reduced Pressure Detector Assembly (RPDA)	No WSA PS 1 - Certified to AS/NZS 2845	LWG Zurn	Model 375	DN32					Any brand with ISO Type 5 product certification to AS2845 is accepted	UW prefers RP03 RPZ	
858			RMC									
859			Emerson / ValvCheQ	RP03								
860	Hydroflow Distributors	Watts	Use is subject to acceptance by SP									
861	Pressure Limiting Valve For Water Services	No WSA PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS 3688. 2 - PN 16 3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4 - Watermark acceptance 5 - Set point 50 m	RMC		DN15 to 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	Use is subject to acceptance by SP	
862			NEFA									
863			Hydroflow Distributors	Watts								
864	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	Use is subject to acceptance by SP		

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Category: WATER SUPPLY MISCELLANEOUS ITEMS												
865	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									
866			Tapex									
867			LWG Zurn									
868			Rain Harvesting	421			Use is subject to acceptance by SP					
869			Wenac						Use is subject to acceptance by SP			
870	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						
871												
872	Loose PE Sleeving To DI Pipe	320	Viadux	BLUEBOSS blue		Mandatory sleeving to all DI pipe unless DI pipe manufacturer supplier can guarantee it is not needed following comprehensive soil testing and risk assessment.						
873			Crevet									
874	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	Hydro S1		Minimum PN12 Series 1	CoGC also accepts uPVC series 1 PN12 as per SEQ-WAT-1106-1	LCC also accepts 100 dia uPVC PN9 Series 1			UW requires uPVC PN9 series 1 with solvent weld joint- Refer drawing SEQ-WAT-1108-1.	
875			Vinidex									
876			Viadux									
877			Pipemakers									
878	Embedment Material - Crushed Rock	351 4.1 - Single sized. 4.2 - Nominal 5 or 7 mm										
879	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	
880	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			
881	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						
882	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 to Specification for Building and Structural Works, Section 5.15 Security Fencing.	
883			Bluedog Fencing	Securatop		Minimum panel height 2.1m; Powder coated black to AS4506	Acceptance yet to be determined	Acceptance yet to be determined	Considered on case by case basis	Acceptance yet to be determined		
884			Oxworks	Hercules			Acceptance yet to be determined	Acceptance yet to be determined		Acceptance yet to be determined		
885	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	kwik-ZIP	HDX Series	Runner height of 38, 65, 90 and 125 mm	For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes						
886				HD Series	Runner height of 30, 50, 75 and 100mm 110mm OD to 355mm OD (untogroated 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	
887				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
888	Plastic Marker Post	1- Comply with Main Roads specification MRS11.14	Park International									
889			Deks	Deks	1350 mm Long x 100 mm Wide x 4 mm Thick	As per SEQ-WAT-1300-2		NOT ACCEPTED BY SP				
890			Roadside Products				Acceptance to be determined		Acceptance to be determined	Acceptance to be determined	Acceptance to be determined	
891	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		Stainless Steel SP USE ONLY	Only Brass markers accepted		
892	Camlock	No WSA PS				S/Steel 316				Maximum DN100		
893	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)									
894			Gatic									
895			Civilmart									
896			Webforge									
897			Hygrade				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
898			EJ									
899			Durham									
900			Ducast									
901			Mass Products (Aluminium)									

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902	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	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP
903			EJ								
904			Terra Firma								
905			ACO SAKU								
906	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	Use is subject to acceptance by SP (minimum 2.0 mm thickness)
907	Category: EMERGENCY STORAGE CHAMBERS										
908	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
909			Rocla	Concrete Detention System	Conc. Box units (2.4 m modules) Conc. Pipe units (2.44 m modules)	Reinforced Concrete - Sacrificial layer or Plastlined 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
910			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	Use is subject to acceptance by SP	Considered on case by case basis		Use is subject to acceptance by SP	NOT ACCEPTED BY SP
911			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		Considered on case by case basis		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
912			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		
913			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
914			Polynex	Polynex	From 600mm to 3000mm in diameter	Double walled HDPE As per SEQ-SPS-1402-1	Use is subject to acceptance by SP		Considered on case by case basis		Use Accepted - Minimum 20 year warranty
915											