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Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater			
1	<p>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.</p>												
2	Category: SEWERAGE PIPES AND FITTINGS - NON PRESSURE												
3	PVC-U pipe and fittings - DWV system	230 4.1 - Plain Wall 4.2 - Elastomeric Seal 4.3 - Stiffness as per 230.2.(c) or as required by SP 4.4 - SBR & EPDM 4.5 - Heavy Duty fittings accepted	Iplex	DWV PIPE	DN100 150 225 300 375	Plain wall only accepted	DN100 at SN10 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum	DN100 at SN10 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum	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										
4			Micron Pipelines	Micron Pipelines	DN100 - DN300	For use in trenchless applications only. Not suitable for pneumatic, concussive, pipe ramming or impact moling trenchless installation methods.	Use is subject to acceptance by SP	Considered on case by case basis	Considered on case by case basis	Considered on case by case basis	DN100 at SN10, DN150 and larger at SN8 and Fittings at SN8 minimum for use in trenchless applications only		
5			Pipemakers	Pipemakers									
6			Iplex	Restrain DWV	DN150 225 300 375								
7			PVC-U Pressure pipe Sewer using Standard DWV Junctions	211 4.1 - PN12 4.2 - Deep Sewers or Minimum Cover 4.3 - Standard Packaging & Delivery 4.4 - Series 1 4.5 - SBR & EPDM	Iplex		DN150 225 300	Use is subject to acceptance by SP	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
8					Vinidex								
9					Viadux								
10	DI pipe	202S 4.1 - PN35 4.2 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.3 - Polyurethane lining 4.4 - Restrained Joints on Zinc/Bitumen coated pipe 4.5 - Polyurethane coating 4.6 - SBR, EPDM or NBR 4.7 - PE sleeving is required on all DI pipes unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	VonRoll / Reece	Ducpur/ Ecopur	DN80 - 700 (ISO Sizes)	Min 900 micron Polyurethane external coating Min 1300 micron Polyurethane internal lining	Detector Tape for ISO Pipe spirally wound along pipe and over PE sleeve.	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP			
11			200 4.1 - PN20 4.2 - Seal coating not required for sewage 4.3 - Polyurethane lining 4.4 - Zinc/Bitumen coating or Polyurethane coating 4.5 - Restrained Joints on Zinc/Bitumen coated pipe 4.6 - SBR, EPDM or NBR 4.7 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.8 - PE sleeving is required on all DI pipes unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	Jindal SAW/Iplex		DN225 to DN750			NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	PN20 NOT ACCEPTED BY SP, PN35 Use is subject to acceptance by SP	
12				Jindal SAW/Iplex	Jindal SAW	DN100 - 750	400g/m2 Zn/Al+100µm epoxy or min 900 micron Polyurethane external coating.			Use is subject to acceptance by SP	Use is subject to acceptance by SP		
13				Viadux	DIMAX/TYTON XCEED Z+	DN100 - 750	Min 1300 micron Polyurethane internal lining						
14			200 and WSAA TN6 4.1 - PN35 or flange class 4.2 - Seal coating not required for sewage 4.3 - Polyurethane or CAC cement lining 4.4 - Polyurethane or Zn-Al alloy and epoxy coating 4.5 - By design 4.6 - SBR and EPDM 4.7 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.8 - PE sleeving is required on all DI pipes unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	Jindal SAW/Iplex	Ironite	DN100 - 750	CAC cement lining	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Considered on case by case basis	Accepted in applications where DI pipe is specified e.g. building over sewer applications	NOT ACCEPTED BY SP	
15				Saint-Gobain	Integral Zinalium	DN100 - 750							
16				Vinidex	ZAP-HAC	DN100 - 750						Use is subject to acceptance by SP	
17													
18			Steel pipe	203 4.1 - By design and PN16 min 4.2 - SEQ Code nominal DN's 4.3 - Seal coat not required for sewage 4.4 - As per SP requirement 4.5 - Joints by design to SEQ Code Standards 4.6 - Cathodic protection by design 4.7 - Standard pressure tests 4.8 - Fusion bonded polyethylene lining 4.9 - Zinc metal spray as per the specification 4.10 - SBR & EPDM 4.11 - Fusion bonded polyethylene coating minimum	Steel Mains	Sintapipe		Coating to be fusion bonded Polyethylene minimum. Lining to be fusion bonded polyethylene	Accepted OD610 or Larger	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	
19					Pipe Lining and Coating	Fusionkote	OD168 - 3624						
20	Steel fittings – bends, tees and reducers	204 4.1 - MPa 1.6 minimum 4.2 - DN by Design subject to SP approval 4.3 - Bends, tees, reducers and other types by design to SP approval 4.4 - Seal coat not required for sewage 4.5 - As per SP requirement 4.6 - Joint requirements by design 4.7 - Cathodic Protection by design 4.8 - Fusion bonded polyethylene lining 4.9 - Zinc metal spray as per the specification 4.10 - SBR & EPDM 4.11 - Fusion bonded polyethylene coating minimum	Steel Mains	Sintakote	OD114 – 2500			Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP			
21			Pipe Lining and Coating	Fusionkote	OD168 – 3624								
22	Polypropylene (PP) pipe	240 4.1 - As per standards 4.2 - SN10 4.3 - SBR & EPDM 4.4 - As per standards	Vinidex	SewerPRO	DN150 - 900	Accepted DN450 or larger	Supporting documentation shall be submitted by RPEQ to demonstrate the selected pipe material is appropriate for the purpose and complies with the AS2566.	Supporting documentation shall be submitted by RPEQ to demonstrate the selected pipe material is appropriate for the purpose and complies with the AS2566.	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	SP USE ONLY		
23			Iplex	SewerMAX	DN225 - 600								
24			Enviropipes	EnviroPipe	DN150 - 900								
25													
26													
27													

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1	PE pipe - NuSewers	242 4.1 - No alternative dimensions accepted 4.2 - PN8 SDR21 4.3 - Elastomeric seals not permitted 4.4 - External colour light grey solid or striped see POP203 4.5 - Internal colour white or light colour 4.6 - Pipe lengths for DN160 and larger with coils accepted for DN110 4.7 - PE100 only	Iplex	POLplex	DN110 160 250 315 400 500 630 800 1000 1200	For pipe bursting / cracking installations, minimum PE100 PN10 (SDR 17) to be used and installed with tracer wire, unless specified otherwise. Pipe wall thickness to be designed for installation forces. Butt welded joints are mandatory for pipe bursting / cracking installations.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	PE is mandatory pipe for reticulation sewers, PE is preferred pipe for larger sewers. Where > PN8 is required or >DN315 is required in smaller quantities, other deviations and dark internal pipe colour may be used with prior SP approval	
28			Vinindex	Sewertech							
29			David Moss Corporation	DAMOS Hi-Vis							
30			Viadux								
31			Poly Pipe	SewerFlex							
32			Enviropipes	Enviropressure							
33			ACP	ACP	DN110 160 250 315						
34	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	Pipemakers	Pipemakers	DN110 160 250 315 400 500 630 800	Electrofusion fitting to be long type.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Flanged tees and flanged saddles are not accepted by SP.	Flanged tees and flanged saddles are not accepted by SP.
35			Clover	Clover / Rohr							
36			Acu-Tech	Acu-Tech							
37			George Fischer / Iplex								
38			Friatec / Vinindex								
39			Plasson	Lightfit							
40			Agru	AGRU	Up to DN315						
41	Fusion Group/FusionPlast	Fusamatic	Up to DN630								
42	NUPIGECO	Elofit	DN110 to DN630								
43	Hydroflow / Plastitalia S.p.A	PLAST	Up to DN630								
44	David Moss Corporation	DAMOS	Up to DN1000								
45	Advanced Piping Systems / Plastitalia S.p.A	PLAS	Up to DN630								
46	Fusion QLD	Flo Right	Up to DN450								
47	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	Vinindex			Electrofusion fitting to be long type. PE MH connectors shall have Hydrophilic seals both sides of puddle flange.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
49			Iplex								
50			Smartstream								
51			Adroit	Adroit							
52			David Moss Corporation	DAMOS Hi-Vis Fittings	DN110 - DN315						
53			Holman	Holtech	DN110 & DN160						
54			Pipestar	Pipestar	DN110 - DN315						
55	Allmach PFS Pty Ltd	Sewerstream	DN110 - DN315								
56	PE Flex Restraint Fitting (used as puddle flange)	No WSAA PS	Georg Fischer	EF Flex Restraint	DN160 - DN1600	PE100 In accordance with manufacturer's requirements	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	
57			Plasson	Flex Restraint	DN160 - DN1600						
58	VC pipe	231 4.1 - DN100/150 Crushing Strength 34, DN225 and larger Class 160 4.2 - Sp-Soc and Sleeve Coupling 4.3 - All seal materials accepted	Hepworth	Supersleeve	DN100-1200		Use is subject to acceptance by SP May only be used as jacking pipes	NOT ACCEPTED BY SP	Considered on case by case basis May only be used as jacking pipes	Use is subject to acceptance by SP May only be used as jacking pipes	May only be used as jacking pipes
59			Steinzeug Keramo	Keramo							
60			Naylor / Rocla	Denlok							
61	DIO bends or X Drop fitting	201 4.1 - Sp-Soc ends to serve PVC-U DWV pipe 4.2 - Refer Standard drawings 4.3 - Standard RRJ for accept PVC-U DWV pipe 4.4 - SBR & EPDM 4.5 - Thermal-bonded polymeric coated and lined	Crevet			All Di fittings to be wrapped	Only accepted where PVC MH inspection bends are not available			Use is subject to acceptance by SP	NOT ACCEPTED BY SP
62			Viadux								
63	PVC-U heavy duty maintenance hole inspection bends	230 4.1 - Plain wall 4.2 - RRJ 4.3 - Min SN10 for DN100 and SN8 for DN150 and larger 4.4 - NBR or SBR or EPDM 4.5 - Heavy duty fittings shall be used 4.6 - Two moulded pieces welded by factory 4.7 - Fibre reinforcement is not required	Plastec	Plastec	DN100 RRJ/Sp (#19712) DN150 RRJ/Sp (#19714) DN150 Sp/Sp (#20041)	SN rating (SN8 or SN10) and letters "Heavy Duty" (Super Duty) shall be imprinted on the surface of fittings. This fitting is to be used for maintenance hole internal drops. DN150 Sp/Sp (#20041) is to be used for retrofitting on AC sewers only.				Use is subject to acceptance by SP	Use is subject to acceptance by SP
64											
65	Metal-banded flexible coupling	235 4.1 - Need for adaptor bushes where difference between OD of pipe and ID of coupling greater than 16 mm 4.2 - Metal band and bolts shall be min SS316	Flex-Seal	Flex-Seal (shear banded coupling, aka Standard Coupling)	Up to DN600	Not to be used to connect to unrestrained PE Pipe. Fitting not designed to restrain thermal expansion/contraction forces of PE pipework.		SP USE ONLY		Not to be used for PE pipes where thermal expansion / contraction of pipework is likely to result in pull-out of the coupling	Use is subject to acceptance by SP
66			DEKS	DEKS shear banded coupling	DN100 to DN225						
67			Rehau	Awaduct Flex Connect	DN100 to DN 630						
68			VIP Polymers/ Jaybro Group	VIPSeal	DN100 to DN600					Not to be used for PE pipes where thermal expansion / contraction of pipework is likely to result in pull-out of the coupling	

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1	DI mechanical couplings - Non End Thrust Restraint	270 4.1 - PN16 4.2 - All pipe materials except PE 4.3 - Long Series 4.4 - Straight Soc-Soc 4.5 - Stepped coupling require SP approval 4.6 - Flange end not used 4.7 - SBR & EPDM 4.8 - SS316 bolts, nuts and washers	Viadux	Gibault - Ezigib & Varigib		Long type. All DI fittings to be wrapped. DI must have thermal bonded polymeric coating						
69			Crevet	Gibault & Universal								
70			AVK	Gibault & Universal								
71			AVK	AVK Supa-Gib Couplings	Up to DN675							
72			Viking Johnson	MaxiFit & QuickFit								
73			Derwent Industries		DN100 - DN300							
74			DEKS	DEKS FLEXI-GIB	DN80 to DN600							
75			Daemco	Reiniversal	Up to DN 600							
76			Clover Pipelines	Clover Connect VPC	DN100 to DN600							
77	Civil Pipes	CPS Uni-Gib	DN 80 - DN 300									
78							Use is subject to acceptance by SP		Use is subject to acceptance by SP		Use is subject to acceptance by SP	
79	Pushfit Coupling, internal for Non-pressure Applications	250	Femco / Flex-seal	ICON Pushfit	DN95 / DN100 / DN95-100 / DN95-150 / DN100-150 / DN150		Use is subject to acceptance by SP	NOT ACCEPTED BY SP	SP USE ONLY	Use is subject to acceptance by SP	SP USE ONLY	
80	316 Stainless Steel Sewer OB Junction Clamps	346 4.1 - Nominal size DN100 - DN450; Branch sizes DN100 - DN225	Derwent Industries	Derwent	DN100 - DN450 with branch sizes DN100/ DN150/DN225	For property connections on existing gravity sewer pipelines where type A or B connections are required. A rubber ring socket joint (RRJ) to be factory fitted to the glue in branch by Derwent to suit the SEQ Code requirements.		SP USE ONLY	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 - 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	
82	Reinforced Concrete pipe	233 4.1 - Class 4 4.2 - Bends not permitted 4.3 - In corrosive soils coat external face with 250 micron DFT High Build Epoxy 4.4 - Lifting holes not permitted 4.5 - 2.0 mm PE sheet Factory cast-in liner with Invert overlapped but not welded 4.6 - No additional cover 4.7 - SBR & EPDM	Rocla							Use is subject to acceptance by SP	Use is subject to acceptance by SP	
83			Humes									Use is subject to acceptance by SP
84	Polycrete pipe	No WSA PS 4.1 - Class to suit design 4.2 - Bends not permitted 4.3 - Compliance with ASTM D 6783, DIN 54815-1 and DIN 54815-2 4.4 - SBR and EPDM Sewer Pipe and Jacking Pipe approved	Iplex	Meyer pipe	DN200 to 2600					Use is subject to acceptance by SP	Use is subject to acceptance by SP	
85			Global Pipe	Al Watani								Use is subject to acceptance by SP Coupling Grade 316 Stainless Steel (min.)
86	CC-GRP (centrifugally cast) pipe and Fittings - Sewer Pipe	237S 4.1 - PN1 4.2 - SN10,000 minimum 4.3 - Soc-Sp RRJ 4.4 - Standard Glass 4.5 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN400 - DN1400	Sewer Pipe	Use is subject to acceptance by SP	Considered on case by case basis 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 - DN3000							
88			Global Pipe	Fiberstrong	DN300 - DN4000	Sewer Pipe	Use is subject to acceptance by SP	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	
89			Superlit / Clover Pipelines	Superlit	DN300 - DN3000							
90	CC-GRP (centrifugally cast) pipe and Fittings - Jacking Pipe	205J 4.1 - As per product 4.2 - Pressure Class by design 4.3 - Stiffness Class by design 4.4 - Jacking Load by design 4.5 - 316 Stainless Steel (min) or GRP couplings 4.6 - SBR & EPDM 4.7 - Pipe Lengths to manufacturers requirements 4.8 - Standard Glass	Hobas / Global Pipe	Hobas	DN250 - DN3600							
91			Empire Infrastructure	BOSSPIPE	DN300 - DN2000	Jacking pipes	Use is subject to acceptance by SP	Considered on case by case basis	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	
92			Superlit / Clover Pipelines	Superlit	DN400 - DN1400							
93	FW-GRP (filament wound) pipe and Fittings - Jacking Pipe	206J 4.1 - As per product 4.2 - Pressure Class by design 4.3 - Stiffness Class by design 4.4 - Jacking Load by design 4.5 - 316 Stainless Steel (min) or GRP couplings 4.6 - SBR & EPDM 4.7 - Pipe Lengths to manufacturers requirements 4.8 - Standard Glass	Flowtite / Iplex	Flowtite	DN300 - DN3000							
94			Superlit / Clover Pipelines	Superlit	DN300 - DN3000	Jacking pipes	Use is subject to acceptance by SP	Considered on case by case basis	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	
95	Non-return valves	280 4.1 - Solvent Cement 4.2 - SN10 4.3 - No alternate elastomeric materials for joint seals accepted	Iplex	Flap valve	DN50 to DN300							
96				Reflux valve fabricated	DN100	Use is subject to acceptance by SP	Considered on case by case basis		Use is subject to acceptance by SP			
97			Vinidex	Flap valve	DN50 to DN100							
98			Hygrade Water	No WSA PS	WaStop Non-return valves	DN75 to DN1800	All DI fittings to be wrapped	Use is subject to acceptance by SP	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	
99					Flotech Controls	Red valve - Tidelflex check valves						
100	HMA Flow & Industrial - Valveco	Proflex Rubber Check Valve	DN 25 to DN 2500									
101	Fluid Control	Proflex Rubber Check Valve	DN 25 to DN 2500									
102	Prime Composites	Ring Mount Floodgate Wall Mount Floodgate Scour Valve Floodgate		DN100 to DN900		Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined		

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103	Knife gate valve - Stainless Steel	266 4.1 - PN10 4.2 - Wafer or Lugged 4.3 - Clockwise closing, rising spindle	Emerson	Keystone	Up to DN600	Body stainless steel Grade 316. Gate stainless steel Grade 316. Gland Follower stainless steel Grade 304 or 316. Spindle stainless steel grade 304 or 316. Yoke/Pillar/Bridge stainless steel Grade 304 or 316. Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel Grade 316.	Use is subject to acceptance by SP			Use is subject to acceptance by SP	Subject to meeting the corrosion resistance requirements in Column F
104			Challenger	Challenger							
105			AVFI	AVFI							
106			HMA Valveco	HMA Valveco							
107			AVK (Note: This is the only vendor complying with 316 SS throughout)	Orbinox							
108	Bonnetted knife gate valve - Stainless Steel	266 4.1 - PN10 4.2 - Wafer or Lugged 4.3 - Clockwise closing, rising spindle			Up to DN600	Body stainless steel Grade 316. Bonnet stainless steel Grade 316. Gate stainless steel Grade 316. Gland Follower stainless steel Grade 304 or 316. Spindle stainless steel grade 304 or 316. Yoke/Pillar/Bridge stainless steel Grade 304 or 316. Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel Grade 316.	Use is subject to acceptance by SP.	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	
109	Knife gate valve/penstock - Fabricated Stainless Steel	No WSAA PS 4.1 - PN1 4.2 - Flange mounted frame to suit AS 4087 PN16 flange drilling pattern, or wall mounted. Fasteners on inlet side only. 4.3 - Clockwise closing, rising spindle mounted within non-rising torque tube. Lift nut mounted on thrust tube above top water level. (Note: This is a low pressure type gate valve / penstock, suitable only for sewer isolation etc.)	Australian Water Engineers	Australian Water Engineers	DN100 to DN1200	Frame, Gate, Stem, Torque Tube, Thrust Tube: stainless steel Grade 316, electropolished. Seat UHMWPE. Lift Nut aluminium bronze. All fasteners stainless steel Grade 316.	Use is subject to acceptance by SP. Fabricated knife gate valve / penstock to comply with requirements of CoGC Supplementary mechanical & Electrical Specification	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	Fabricated knife gate valve / penstock to comply with requirements of Unitywater Pr9693 - Specification for Mechanical Installation
110			Hygrade Water	Atec GmbH	DN100 to DN2800						
111	Knife gate valve - Ductile iron body	266 4.1 - PN10 4.2 - Wafer or Lugged 4.3 - Clockwise closing, rising spindle	Emerson	Keystone	Up to DN600	Body and Gland Follower ductile iron with fusion bonded polymeric coating external to 300 µm, internal to 350 µm (min.) or high-build two-pack epoxy to 275 µm (min.). Gate stainless steel Grade 316. Spindle stainless steel Grade 316. Yoke / Pillar / Bridge carbon steel with fusion bonded polymeric coating to 300 µm or high-build two-pack epoxy to 275 µm (min.). Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel Grade 316. All DI fittings to be wrapped	Use is subject to acceptance by SP		Considered on case by case basis	Use is subject to acceptance by SP	
112			Challenger	Challenger							
113			AVFI	AVFI							
114			AVK	CYL							

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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 Vinidex Viadux Micron Pipelines Pipemakers	RHINO Hydro Plaspipe Micron Pipelines Pipemakers Enviromain	DN100 150 200 225 250 300 & 375 DN100 - DN300					NOT ACCEPTED BY SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP		
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 Vinidex Micron Pipelines Pipemakers	ApolloBLUE Supermain Micron Pipelines Alphamain TOM®	DN100 150 200 225 250 300 & 375 DN100 - DN375 DN100 to DN150 up to DN375			NOT ACCEPTED BY SP		NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP		
DI pipe	200 and WSAA TN6 4.1 - All Pressure Classes - see Column F 4.2 - Seal Coat not required for Sewerage 4.3 - Internal Linings - see Columns F-K 4.4 - All pipes to be polyurethane or Zn-Al alloy and epoxy coated. All fittings to be Fusion Bonded Polymeric Coated 4.5 - Restraint Joint Seals by approval 4.6 - SBR and EPDM 4.7 - PE sleeving is required on ALL DI pipes unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	Jindal SAW / Iplex Vinidex Clover Pipelines Vinidex	ZAP-GP Clover/Xinxing ZAP-HAC	DN250 to DN750 (not 225)	PN20 PN20, CAC lining for corrosive flows					NOT ACCEPTED BY SP	PN20 NOT ACCEPTED BY SP		
		Clover Pipelines Vinidex	Clover/Xinxing ZAP-GP	Up to DN 750 (not 225)	PN35 and Flange Class, GP or SR lining 400g/m2 Zn/Al+100µm epoxy or min 900 micron Polyurethane external coating.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP			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.		
		Jindal SAW / Iplex Jindal SAW / Iplex	Ironitite (XINAL400+ coating) Ironitite (XINAL400+ coating)									Cement mortar lining of any type is not permitted at locations where there is a potential of the pipe lining in contact with air/gas continuously or intermittently. At such locations, non-corrosive pipes or metal pipes with non-corrosive linings shall be used.	
		Vinidex Saint-Gobain Viadux Clover Pipelines Clover Pipelines	ZAP-HAC DIMAX/TYTONXTREME Z+ DIMAX/TYTONXTREME Z+ Clover/Xinxing	DN100 - DN750 (not 225)	PN35 and Flange Class, CAC or HAC lining for corrosive flows 400g/m2 Zn/Al+100µm epoxy or min 900 micron Polyurethane external coating.	Use is subject to acceptance by SP. Cement Mortar lining of any type is not permitted within 5.0 metres of the HGL at pump stop. Alternative non-corrosive lining or pipe and fittings required.	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 accepted within 5.0 metres of the HGL at pump stop. Alternative non-corrosive lining or pipe and fittings required.				All linings of pipes and fittings at such locations shall be non-corrosive.	
		Clover Pipelines	Clover/Xinxing									Use is subject to acceptance by SP	
		Clover Pipelines	Clover/Samsun	DN100 - DN300 (not 225)									
		Reece/Viadux Jindal SAW / Iplex	DIMAX/TYTON XCEED Z+ Jindal SAW	DN100 - DN750 (not 225)	PN35 and Flange Class 400g/m2 Zn/Al+100µm epoxy or min 900 micron Polyurethane external coating Min 1300 micron Polyurethane internal lining								Use is Subject to acceptance by SP
		DI Pipe - ISO	202S 4.1 - K9-PN35 4.2 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.3 - Polyurethane lining only 4.4 - Restrained Joints on Zinc/Bitumen coated pipe 4.5 - Only Polyurethane coating on aerial pipes 4.6 - SBR, EPDM or NBR 4.7 - PE sleeving is required on ALL DI pipes unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	VonRoll / Reece	Ducpur/ Ecopur	DN80 - 700	Polyurethane internal protection	Detector Tape for ISO Pipe spirally wound along pipe and over PE sleeve.	Considered on case by case basis		NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
		DI fittings - bends, tapers, tees/branches, connectors, risers & caps/blank ends	201 4.1 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.2 - Standard and PN16 fittings 4.3 - Restraint Joint Seals by approval 4.4 - SBR & EPDM	Viadux Crevet / Iplex Vinidex Denwent Gillies / Hygrade Himgiri Castings/Galvin Engineering / CivilPipes Dobbie Dico Mallet Clover Pipelines Daemco Reece	Tyton Joint & Sureflow Crevet Superlink Galvin Dobbie Mallet Clover Daemco DIMAX	Up to DN750 (not 225) Up to DN750 (not 225) Up to DN750 (not 225) Up to DN750 (not 225) DN100 to DN300 DN80 to DN300 DN100 to DN250 DN80 to DN750 DN80 to DN150 DN80 - DN375 DN80 to DN300	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-lok) subject to acceptance by SP. Caps / Blank Ends not accepted FI-Soc & FI-Sp Connectors accepted up to DN375 FI-Soc & FI-Sp Connectors accepted up to DN375 FI-Soc & FI-Sp Connectors accepted up to DN375 Use is subject to acceptance by SP

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	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
1	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.)
153	316 SS repair and flanged off-take clamps	313 4.1 - Type R, Type F or Type R and Type F by SP approval 4.2 - Pipe DN by SP approval 4.3 - Off-take DN by SP approval 4.4 - Min. PN16	Crevet		DN100 to DN300	Flanged off-take clamps approved Type R for DI, AC and CI host pipes and Type F for PVC-m, PVC-u only, to pipe manufacturers specifications. Host pipe to be of suitable condition.	Use is subject to acceptance by SP	Considered on case by case basis	SP USE ONLY	Only repair clamps accepted	Type R accepted only In acid sulphate soils the clamp must be Densowrapped.
154			Viadux	Wang	DN100 to DN300						
155			Cascade Control	Rapid Clamps	DN40 to DN350						
156			Daemco	Norma Connect	DN80 to DN300						
157			AVK	AVK Series 748	Up to DN300						
158			Derwent								
159	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	
160	Repair Couplings	270 4.1 - PN16 4.2 - All pipe materials 4.3 - Short and Long Series 4.4 - Straight and Stepped 4.5 - All DN Range options 4.6 - Flange end not used 4.7 - EPDM, NBR, Neoprene 4.8 - SS316 bolts, nuts and washers shall be used	Nova Siria/Hygrade Water	Duofit	DN 300 - DN2000		Use is subject to acceptance by SP	Considered on case by case basis	SP USE ONLY	Use is subject to acceptance by SP	Use is subject to acceptance by SP
161			Hygrade Water Australia	cQuick Encapsulation Repair collar	DN 80 - DN200						
162			AVK	Series 208 Encapsulation Repair collar	DN 80 - DN200						
163	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	
164			Derwent	Uniclamp	DN125 and DN180						
165	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
166			DEKS	DEKS shear banded coupling	DN100 to DN225						
167	DI mechanical couplings - Non End Thrust Restraint	270 4.1 - PN16 4.2 - All pipe materials except PE 4.3 - Long Series 4.4 - Straight Soc-Soc 4.5 - Stepped coupling require SP approval 4.6 - Flange end not used 4.7 - SBR & EPDM 4.8 - SS316 bolts, nuts and washers shall be used	Viadux	Gibault - Ezigib & Varigib	Up to DN675	Long type. All DI fittings to be wrapped. DI must have thermal bonded polymeric coating.			CLOVER GIBALT NOT ACCEPTED BY SP		Use is subject to acceptance by SP
168			Crevet	Gibault & Universal							
169			AVK	Gibault & Universal							
170			AVK	AVK Supa-Gib Couplings							
171			Viking Johnson	MaxiFit, QuickFit							
172			Derwent Industries								
173			DEKS	DEKS FLEXI-GIB							
174			Daemco	Reinoversal							
175	Clover Pipelines	Clover Connect VPC	DN100 to DN600								
176	Civil Pipes	CPS Uni-Gib	DN 80 - DN 300								
177	Stainless steel flexible couplings - Unrestrained	285 4.1 - Unrestrained for DI, AC, PVC, steel, GRP and concrete pipes 4.2 - PN16 min	Uniones Arpol SA / Global Pipe	ARPOL	DN150-DN1200	Arpol Instal for joining pipes and Arpol Rep for pipe repairs. Required torque as per manufacturer's requirement marked on each fitting		Considered on case by case basis	ARPOL INSTAL - Accepted ARPOL REP - SP USE ONLY	Use is subject to acceptance by SP	Use is subject to acceptance by SP
178											

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1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
179	DI mechanical fittings - End Thrust Restraint (Gripper Type)	271 4.1 - PN16 4.2 - CI, DI, PE, SCL, AC 4.3 - Long Series 4.4 - Straight and Stepped and Flange Adaptor 4.5 - All DN range options 4.6 - Flange adaptors to be drilled as per AS/NZS 4087 Figure B5 4.7 - SBR & EPDM & Nitrile 4.8 - Use of pipe stiffener inserts for PE pipe as per fitting manufacturer's requirements 4.9 - All DI fittings to be wrapped with CI and DI systems 4.10 - Flange adaptors up to DN355 PE shall be full bore connection i.e. DN63 PE / DN50 FL, DN125 PE / DN100 FL, DN180 PE / DN150 FL, DN250 PE / DN200 FL, DN315 PE / DN250 FL and DN355 PE / DN300 FL	Hawle / Hygrade Water	Synoflex Restraint		Synoflex is manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DN's may not suit the same pipe DN's for some pipe materials and sizes (e.g. DN200 CIOD pipes). In this case a larger gripper socket DN may need to be used. Contractors need to check the suitable gripper socket DN's for their pipes. Does not require pipe stiffener inserts to be installed for PN16 (SDR 11) PE100 pipe.				Only accepted for use where welded joints are not practical	The use of gripper type fittings on AC, DI and SCL pipe is subject to acceptance by SP	
180			Georg Fischer	Multijoint 3000 Plus Restraint	50NB - 300NB	Georg Fischer 3000 Plus is manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DN's may not suit the same pipe DN's for some pipe materials and sizes (e.g. DN200 CIOD pipes). In this case a larger gripper socket DN may need to be used. Contractors need to check the suitable gripper socket DN's for their pipes. Requires pipe stiffener insert to be installed when connecting to PE or PVC pipe.			SP USE ONLY Subject to structural assessment of host pipe			
181			AVK / Fusion Plast Australia	Supa-Maxi		AVK Supa-Maxi is manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DN's may not suit the same pipe DN's for some pipe materials and sizes (e.g. DN200 CIOD pipes). In this case a larger gripper socket DN may need to be used. Contractors need to check the suitable gripper socket DN's for their pipes. Requires pipe stiffener insert to be installed when connecting to PE or PVC pipe. The PE transition couplings rated PN10 are not accepted.			SP USE ONLY Not accepted for use on PVC and GRP pipes End cap shall be used with thrust block	Use is subject to acceptance by SP	The use of gripper type fittings on AC, DI and SCL pipe is subject to acceptance by SP	
182			Nova Siria / Hygrade Water	Multigrip	DN350 - DN1400	Requires pipe stiffener insert to be installed when connecting to PN16 (SDR 11) PE100 pipe.	Use is subject to acceptance by SP	Considered on case by case basis		Use is subject to acceptance by SP		
183			Viking Johnson	UltraGrip	DN100 - DN300					Only accepted where welded joints are not practical	Use is subject to acceptance by SP. Not approved for use in acid sulphate soils and saline coastal environments.	
184			Hawle / Hygrade Water	System 2000	DN63-DN355	Does not require pipe stiffener inserts to be installed on PN16 (SDR 11) PE100 pipe.					Only accepted for use where welded joints are not practical	Use of Hawle System 2000 and AVK SupaPlus restrained couplings are subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.
185			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	AVK	Supa Plus Restraint	DN63 - DN315	Requires pipe stiffener inserts to be installed			SP USE ONLY Subject to structural assessment of host pipe	Use is subject to acceptance by SP	The use of gripper type fittings on AC, DI and SCL pipe is subject to acceptance by SP
186			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.					Use is subject to acceptance by SP	
187			Daemco	Xcel Restrained Coupling and Flange Adaptor	DN63 - DN315 for Coupling & DN63 - DN315 for Flange Adaptor	Does not require pipe stiffener inserts to be installed for PN16 (SDR 11) PE100 pipe.					Only accepted for use where welded joints are not practical	Use of Daemco Xcel Restrained Couplings is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations
188			Victaulic Piping Products	Victaulic Restrained Couplings Style 905	Up to DN225	Does not require pipe stiffener inserts to be installed for PN16 (SDR 11) PE100 pipe.						
189			DI flanged telescopic flexible fitting	No WSA PS Aligned to WSA PS-201 and WSA PS-270 with Flanges to AS 4087 Figure B5 To comply with WSA PS-201S when published	Hawle / Hygrade Water	Vario	DN50 - DN200	All DI fittings to be wrapped	SP USE ONLY		SP USE ONLY	SP USE ONLY
190			Dismantling joints for Flange Pipe and Fittings	284 4.1 - No alternative material grades 4.2 - As per manufacturer's requirements 4.3 - Configuration: FI-FI for DJ & FI/Sp for UniFlange 4.4 - Fitting type: thrust type and non-thrust type 4.5 - Thrust Restraint by Fitting 4.6 - SBR & EPDM	Viadux			Thrust restraint type and non-thrust type are Flanged to AS4087 PN16.	Dismantling joints shall be restrained type only Use of uni-flange is subject to acceptance of SP			
191	Viking Johnson					SS316 bolts, nuts and washers.	NOT ACCEPTED BY SP					
192	HMA Group	Uni-Flange Adaptor			DN50-DN500	Larger sizes of UniFlange shall be assessed for available Fitting PN vs Pipeline Test Head.	Use is subject to acceptance by SP		Considered on case by case basis	Use is subject to acceptance by SP		
193	Hygrade Water	Pipemate			DN80-DN900	All DI fittings to be wrapped	NOT ACCEPTED BY SP					
194	AVFI	AFD10 Series			DN80-DN1200		Restrained type only	Restrained type only				
195	PE pipe	207 4.1 - PN16 4.2 - Sewer Rising main 4.3 - Coil pipe permitted up to DN125 with Pipe lengths for larger DN 4.4 - Cream refer POP203 4.5 - PE100 only	Iplex	POLIplex						PE is preferred pipe material - PE shall be used unless specific site conditions dictate otherwise.	PE is preferred pipe material Pressure Sewer/ Rising main pipes shall be black with cream stripes Vacuum Sewer pipes shall be solid cream (co-extruded with the pipe)	
196			Vinidex	Sewertech								NOT ACCEPTED BY SP
197			David Moss Corporation	DAMOS	DN40 50 63 90 125 180 250 315 355 450 560 630 800							
198			Poly Pipe	SewerFlex								
199			Enviropipes	Enviropressure								
200			Cromford	Identipipe								
201			ACP	ACP	DN40 50 63 90 125 180 250 315	For directional drilling installations, minimum SDR 9 (PN20 PE100) unless specified otherwise and install with tracer wire.		Considered on case by case basis				
202			ASA		DN40 50 63 90 125		NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP		NOT ACCEPTED BY SP	NOT ACCEPTED BY SP
203			Agro			Pipe wall thickness to be designed for installation forces.	Use is subject to acceptance by SP					
204			Pipemakers	Pipemakers		Butt welded joints are mandatory for HDD construction where continuous pipes on coil are not available						
205	Clover	Clover/Rohr	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800							PE is preferred pipe material - PE shall be used unless specific site conditions dictate otherwise.		
206	Acu-Tech	Acu-Tech										

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1												
207	PE pipe - High Stress Crack Resistant (HSCR) Polyethylene Pipe	207, POP016 4.1 - PN16 minimum 4.2 - Sewer Rising main 4.3 - Coil pipe permitted up to DN125 with Pipe lengths for larger DN 4.4 - Cream refer POP203 4.5 - HSCR PE100 only	Iplex	Millennium HSCR PE	DN40 50 63 90 125 180 250 315 355 450 560 630 800	For directional drilling and pipe bursting installations, minimum SDR 9 (PN20 HSCR PE100) unless specified otherwise and install with tracer wires.		Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Pressure Sewer (Rising main pipes shall be black with cream stripes Vacuum Sewer pipes shall be solid cream (co-extruded with the pipe)	
208			Acu-Tech	Acu-Tech		Pipe wall thickness to be specified as normal PE100 as such "extra" strength should be provided.					Use is subject to acceptance by SP	
209			David Moss Corporation	DAMOS		Butt welded joints are mandatory for HDD construction where continuous pipes on coil are not available.					Use is subject to acceptance by SP	
210	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	Considered on case by case basis	Accepted up to DN355		
211	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									
212			Friatec / Vinidex	Frialen	DN63XDN32 to DN350XDN90							
213			Plasson									
214			Agru	AGRU	Up to DN630							
215			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
216			NUPIGECO	Elofit	DN20 to DN710		Use is subject to acceptance by SP					
217			Plastitalia S.p.A / Hydroflow	PLAST	Up to DN630		Electrofusion fitting to be long type. Stub flange may only be used for DN450 and larger sizes.		Considered on case by case basis	Considered on case by case basis		
218			Plastitalia S.p.A / Advanced Piping Systems	PLAS	Up to DN630							Use is subject to acceptance by SP
219			Fox Fittings Sp. / Advanced Piping Systems	Fox	Up to DN630						Use is subject to acceptance by SP	Use is subject to acceptance by SP
220			Simona / Plasson	Simona	Up to DN500						Seamless sweep bends not accepted	Seamless sweep bends not accepted
221			Mako	Mako	Up to DN630						Only butt welded spigot fittings accepted	Only butt welded spigot fittings accepted
222			David Moss Corporation	DAMOS	Up to DN1000		Use is subject to acceptance by SP					
223	Fusion QLD	Flo Right	Up to DN450							Use is subject to acceptance by SP		
224	Guangdon Liansu / Crew Pipelines	Lesso	DN63 - DN800		Spigot fittings only accepted				Only butt welded spigot fittings accepted	NOT ACCEPTED BY SP		
225	PE fittings- Fabricated	208 2(a) - AS/NZS4129 or EN1555 or EN12201 or EN13244 is acceptable 4.1 - PN16 4.2 - Electrofusion and butt weld 4.3 - Couplings, Reducers, End Caps, Bends, Tees, Stub Flanges 4.4 - Flanges & SS 316 backing rings to AS/NZS 4087 Fig B5 or B7 4.5 - SBR & EPDM	Adroit	Adroit				Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP		
226			Pipestar	Pipestar	Up to DN355	Butt Welded Fittings Stub flange may only be used for DN450 and larger sizes.	Use is subject to acceptance by SP			Only sweep bends accepted.	Use is subject to acceptance by SP	
227			Enviropipes Pty Ltd	Enviropipes Pty Ltd	DN20 to DN1200		Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined		
228	PE Flex Restraint Fitting (used as puddle flange)	No WSAA PS 1 -PN16 minimum	Georg Fischer	EF Flex Restraint	DN180 – DN1600	PE100 In accordance with manufacturer's requirements	Use is subject to acceptance by SP	Use is subject to acceptance by SP			Use is subject to acceptance by SP	
229			Plasson	Flex Restraint	DN180 – DN1600							
230	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				NOT ACCEPTED BY SP		
231			Plasson		DN80/DN100	Slotted flanges & backing rings suit both DN80 and DN100					Use of stub flanges is subject to acceptance by SP	
232			Iplex		Up to DN355	Full bore connections		Use is subject to acceptance by SP	Considered on case by case basis			
233			Friatec / Vinidex	Frialen	Up to DN180	Metal insert in the flange, backing rings not required					Use is subject to acceptance by SP	Use is subject to acceptance by SP
234			Fusion Group / FusionPlast	Fusamatic	DN90 to DN 450		DN90 slotted flange is not accepted					
235			David Moss Corporation	DAMOS	Up to DN1200		Use is subject to acceptance by SP					
236		208 (Fabricated Fittings) 4.1 - PN16 4.2 - Electrofusion and butt weld 4.3 - Full Face Flange with SS backing ring 4.4 - Flange standard AS/NZS 4087 B5 or B7 4.5 - SBR & EPDM	Rodney / Vinidex	Maxi Stub	Up to DN355	Full bore connection		Use is subject to acceptance by SP				
237	Mechanical Restraining Flange for PE Pipe	No WSA PS 1 - PN16 Minimum 2 - SS316 bolts, nuts and washers shall be used	Derwent Industries	Derwent Industries	DN125 & DN180		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Considered on case by case basis		Use is subject to acceptance by SP	
238	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	Steel Mains	Sintapipe	DN324 - 2159	RRJ unless otherwise approved Coating to be fusion bonded polyethylene minimum. Lining to be fusion bonded polyethylene	Accepted OD610 or larger	Use is subject to acceptance by SP DN610 minimum size	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	

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1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
239		4.11 - Fusion bonded polyethylene coating minimum	Pipe Lining and Coating	Fusionkote	OD168 - 3624							
240	Steel fittings – bends, tees and reducers	204 4.1 - MPa 1.6 minimum 4.2 - DN by Design subject to SP approval 4.3 - Bends, tees, reducers and other types by design to SP approval 4.4 - As per SP requirement 4.5 - Fusion bonded polyethylene coating minimum 4.6 - Joint requirements by design 4.7 - Cathodic Protection by design 4.8 - Fusion bonded polyethylene lining 4.9 - Zinc metal spray as per the specification	Steel Mains	Sintakote	OD114 - 2500			Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP		
241			Pipe Lining and Coating	Fusionkote	OD168 - 3624							
242	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 - DN750	Min. Grade 316 Min. PN16 Flange to AS4087 Fig B5	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use is subject to acceptance by SP	Use is subject to acceptance by SP	
243		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.	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		
244	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		
245	Resilient seated gate valves, thermal bonded polymeric coating	260 4.1 - PN16 4.2 - FI-FI, Soc-Soc, Sp-Sp, FI-Soc, FI-Sp and FI-gripper socket end configurations accepted 4.3 - Integral Bypass on DN450 and larger (Not accepted by Unitywater and Urban Utilities) 4.4 - Gear Box on DN600 and larger (Refer Mechanical List) 4.5 - Anti-Clockwise closing 4.6 - No requirement for spindle cap colour 4.7 - Extension Spindle to WSA PS - 262 4.8 - Spindle Cap 4.9 - SBR & EPDM 4.10 - Stiffener inserts for PE pipe as per manufacturers requirements	AVK	Series 57 (light type only for DN100 & 150) Series 570 Series 55	Up to DN400 Up to DN600 DN450 to 600		DN600 and larger valves shall be DeZurik Eccentric Plug Valves					
246			Hawle	E2 E2 System 2000	DN100-200 DN50-300						Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.	
247			Hawle / Hygrade Water	E3 (FL-FL)	DN100-DN300					Use is subject to acceptance by SP		
248			Viadux	Series 500 Auslite II Auslite III	Up to DN600 DN100 - DN300 Up to DN 600							
249			Karon / Challenger	Karon (FL-FL light weight design) Karon (FL-FL integral bypass valves)	DN80 - DN600 DN80 - DN300 DN450 - DN600		Some valves may not need by-pass (check with SEQ SPs). All DI fittings to be wrapped All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted	Use of Karon / Challenger (FL-FL light weight design) is subject to acceptance by SP	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is considered on case by case basis	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is considered on case by case basis	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) considered on case by case basis
250			AVFI		DN80 - DN600							
251			Betta	BETTA	DN80 - DN600							
252			AAP Industries	Maxflo/appFLO	DN80 to DN300							
253			Derwent Industries	Derwent	DN80 - DN600				DN600 and larger valves shall be DeZurik Eccentric Plug Valves			
254			DAEMCO		DN80 to DN300 for Soc-Sp DN80 to DN375 for FL							
255	Reece	DIMAX	DN80 – DN600 (FI-FI) DN100 – DN300 (Soc-Soc) DN100 – DN300 (Sp-Sp)									
256	278 (RSGVs with PE tails) 4.1 - PN16 4.2 - Anti-Clockwise closing Configurations accepted 4.3 - No requirement for spindle cap colour 4.4 - Extension Spindle to WSA PS - 262 4.5 - Spindle Cap required	AVK	Series 36/80	Up to DN300		All valves shall be restrained. All DI fittings to be wrapped.						
257		Betta	Betta	DN100 & DN150								
258	281 (RSGVs with restrained/gripper ends) 4.1 - PN16 4.2 - Anti-Clockwise closing Configurations accepted 4.3 - No requirement for spindle cap colour 4.4 - Extension Spindle to WSA PS - 262 4.5 - Spindle Cap required 4.6 - SBR & EPDM 4.7 - Stiffener inserts for PE pipe as per manufacturers requirements 4.8 - Integral By-pass on DN450 and larger (Not accepted by Unitywater and Urban Utilities)	AVK	Series 01/71	Up to DN300		All valves shall be restrained. All DI fittings to be wrapped.						
259		Hawle	E2 System 2000	DN50 - DN300							Use of gripper type RSGVs is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations	
260		Betta	BETTA	DN100 - DN300								
261		Derwent Industries	Derwent	DN100 - DN150								
262	DAEMCO		DN100 - DN150									
263	260 4.1 - PN25 4.2 - FI-FI 4.3 - Integral By-pass on DN450 and larger (Not accepted by Unitywater and Urban Utilities) 4.4 - Gear Box on DN600 and larger (Refer Mechanical List) 4.5 - Anti-Clockwise closing 4.6 - No requirement for spindle cap colour 4.7 - Extension Spindle to WSA PS - 262 4.8 - Spindle Cap 4.9 - SBR & EPDM	Reece	DIMAX	DN80 – DN300 (FI-FI)		PN25 Some valves may not need by-pass (check with SEQ SPs). All DI fittings to be wrapped All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted	Use is subject to acceptance by SP			Use is subject to acceptance by SP		

A	B	C	D	E	F	G	H	I	J	K	L
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
264		283 1 - PN16 resilient seated gate valves for under pressure line stopping application for pressure sewerage	Daepoong/ CNS Engineering	S- Gate Valve	DN100 - DN450	Valve for Underpressure Line Stopping, suitable for rigid pipes with CIOD compatibility, i.e. Ductile Iron, Cast Iron and Asbestos Cement	SP USE ONLY	SP USE ONLY	SP USE ONLY	SP USE ONLY	SP USE ONLY
265	Metal seated gate valves, thermal bonded polymeric coating	261 4.1 - PN16 4.2 - FI-FI 4.3 - Gearbox typically on DN600 and larger (Refer Mechanical IPAM List) 4.4 - Anti-clockwise closing 4.5 - No requirement for spindle cap colour 4.6 - Extension spindle to WSA PS-262 4.7 - Spindle Cap 4.8 - SBR & EPDM 4.9 - Integral bypass not accepted by Urban Utilities	AVK	Series 580	DN375 - DN600	All DI fittings to be wrapped. All valves shall be restrained	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Considered on case by case basis		Use is subject to acceptance by SP
266				Sureflow Series 2580	DN375 - DN600						
267	Valve extension spindles	262 4.1 - DN100 to DN525/600 4.2 - Length by Design 4.3 - Valve extension spindles shall be coated with a polymeric coating to AS 4158 with 350 µm DFT (minimum), or Valve extension spindles shall be hot-dip galvanized in accordance with AS 4680, or Valve extension spindles shall be injection moulded high strength, high stiffness glass fibre reinforced thermoplastic in accordance with the relevant sections of AS/NZS 2638.2:2011. 4.4 Spindle support with bearing at 1 per installation minimum and at 1.8 m max spacings for pit installation	Viadux			AS2638 Compliant	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP
268			NIBF / Iplex								
269			Forge Bros / Vinindex								
270			Daemco								
271			Challenger								
272			ANT Infrastructure Technologies	ANT	Up to DN300						
273	DI fittings - tees and crosses with thermal bonded polymeric coating and built in resilient seated gate valves and vertical hydrant outlet	No WSA PS but WSA PS-260 for valve component 4.1 - PN16 4.2 - Flange-Flange 4.3 - No integral by-pass 4.4 - Gear Box on DN600 and larger (Refer Mechanical List) 4.5 - Anti-Clockwise closing 4.6 - No requirement for spindle cap colour 4.7 - Extension Spindle to WSA PS - 262 4.8 - Spindle Cap 4.9 - SBR & EPDM	Hawle / Hygrade Water	Combi Valve	DN100, DN150 & DN200	Thermal bonded polymeric coating is the standard material in WSA PS 201 and WSA PS 212. All DI fittings to be wrapped	Use is subject to acceptance by SP		NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP
274	Ball Valves	274 4.1 - PN16 4.2 - Body material: CF8M316 stainless steel; Ball material: CF8M; Components not in contact with water: SS304; 4.3 - By product 4.4 - BSPT thread 4.5 - Clockwise closing	AVFI	V1 Series - 1 Piece V2 Series - 2 Piece V3 Series - 3 Piece V2FH Series- Flanged	DN8 - DN50 DN8 - DN100 DN8 - DN100 DN15 - DN50	BSPT threaded connections. Suitable for sewage	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use is subject to acceptance by SP	
275	CC-GRP (centrifugally cast) pipe and Fittings - Sewer Pipe	237S 4.1 - PN16 4.2 - SN10,000 minimum 4.3 - Soc-Sp RRJ 4.4 - Standard Glass 4.5 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN400 - DN1400	DI Fittings to WSA PS 201 for Tees and Bends	Use is subject to acceptance by SP	Use is subject to acceptance by SP	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.)
276	FW-GRP (filament wound) pipe and Fittings - Sewer Pipe	205S 4.1 - As per product 4.2 - PN16 4.3 - SN10,000 minimum 4.4 - Bends, T-piece, Y-piece, Saddles, Reducers, Flanges and MH Couplings 4.5 - Soc-Sp RRJ 4.6 - Standard Glass 4.7 - SBR & EPDM	Flowtite / Iplex	Flowtite	DN300 - DN3000	DI Fittings to WSA PS 201 for Tees and Bends	Use is subject to acceptance by SP	Use is subject to acceptance by SP	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.)
277			Global Pipe	Fiberstrong	DN300 - DN4000						
278			Superlit / Clover Pipelines	Superlit	DN300 - DN3000						
279	Flowmeter - Network Meter	No WSAA PS 4.1 - Flange to AS4087 Figure 5 4.2 - PN16	Emerson	Emerson		Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Considered on case by case basis	NOT ACCEPTED BY SP	ABB Water master	Use is subject to acceptance by SP
280			ABB	ABB							
281			Siemens	Siemens							
282			E & H	E & H							
283			Krohne	Krohne							
284	Non-return valves - Ball type	No WSA PS 1 - Class PN16 min 2 - Ductile iron body 3 - SS316 bolts, nuts and washers 4 - Medium - Sewage 5 - Installation - Vertical 6 - Flanged to AS 4087 Figure B5 7 - Thermal-bonded polymeric coating to AS/NZS 4158	Applied Process Equipment, Inc	HDL Model 5087	DN40 - DN600	Suitable for sewage service, vertical orientation only	Use is subject to acceptance by SP	Use is subject to acceptance by SP	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
Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
Category: SEWERAGE MISCELLANEOUS ITEMS											
285	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 Surge and overland flow areas, 4 x M12 (min) SS316 Bolts 4.12 - As per SP requirements 4.13 - Rocking of cover in frame is not permitted	Gatic / Milne				Concrete Infill Covers are NOT ACCEPTED BY SP Approval of Class D subject to ultimate state load of 240KN as per AS3996:2019. Class E to be used for motorway locations as per AS3996:2019 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	Use is subject to acceptance by SP	Use is subject to acceptance by SP
286			EJ			Refer Standard Drawings. Covers with another Service Provider's name not accepted. Use of Square and Rectangular Covers and Frames subject to SP approved based on Design needs					
287			Webforge								
288			Civilmart								
289			Durham								
290			Hygrade								
291			Weldlok	Weldlok							
292	Ducast	Ducast			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			
293											
294	Polymeric Riser Ring for Concrete Maintenance Holes	345 4.1 - Circular 4.2 - As per Manufacturers requirements 4.3 - 600 mm Minimum as per SP clear opening requirements	ISC Services	CreteX Pro-Ring			Approved are CreteX Pro-Ring polymeric Class D angle, flat and grade make-up rings for sewer maintenance holes round of 610mm opening and rectangular of 914x610mm opening with thickness from 19 – 152mm. Approved for retrofitting only.	Use is subject to prior approval by SEQ-SP. Use is only applicable to raising existing maintenance hole access cover & frame.	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.
295	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		
296			Webforge	Webforge (DCC4D32)		DI - Class D					
297	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 Surge 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	
298			ACO SAKU			Composite - Class B					
299			Prime Composites			Composite – Class B and D					
300			EJ	EJ SERVO		Composite – Class B and D					
301	Alternative Emergency Storage maintenance hole cover	290 4.1 - DN1000 4.2 - Two part round, Sealed Type 4.3 - 920 mm Clear Opening 4.4 - Class C 4.5 - Hand grip lifting points 4.6 - No additional marking requirements 4.7 - Central Hinge not required 4.8 - Standard Packaging and Delivery 4.9 - No specific marking requirements 4.10 - No alternative coating requirements 4.11 - 4 x 3/8" Allen Key SS 316 Bolts 4.12 - As per SP requirements 4.13 - Seat ring SS 316 4.14 - Rocking of cover in frame not permitted	Treloar	MC1000-Manway Cover	DN900	Class C Fabricated S/Steel grade 316 ring Nitrile gasket seal This is an alternative cover to be used where specified – generally, standard Maintenance structure covers, frames and risers shall be used on emergency storage maintenance holes	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Considered on case by case basis	Use is subject to acceptance by SP	
302	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	
303			Aymroo	Aymroo							
304			C & C Plastics / Havestock	Posistep							
305			Industrial Steps & Ladders	Sure-Step							
306	Ladders	315 4.1 - Type D - Fixed Ladder with two Stiles 4.2 - PBT, FRP, SS316, Galvanised Steel or Aluminium 4.3 - By Standards 4.4 - By Standards 4.5 - Reflectors optional 4.6 - 150 mm from CL of rung to MH wall 4.7 - By Standards 4.8 - Colour as per material 4.9 - SS 316	Miyama / Nextep	Miyama		Fibre reinforced plastics (yellow). Brackets & Fasteners to be SS316. Min. Clearances for Rung Type Ladders as per AS1657 <i>Fixed Platforms, Walkways, Stairways and Ladders - Design and Installation</i>	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	
307			Industrial Steps & Ladders	Add-A-Step		Revised installation procedure WSAA Product Update 1-2011, Subject to WSAA appraisal 5/11 and WSAA Product Alert 1-2010. Brackets as per manufacture specification. Fasteners to be SS316. Bright yellow.					
308			Galvanised Steel			Refer to Standard Drawings					
309			Aluminium								
310											

A	B	C	D	E	F	G	H	I	J	K	L
	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
1	Maintenance Shaft PVC	321 4.1 - As per Standards 4.2 - As per Specifications 4.3 - As per Standards 4.4 - Inlet and Outlet at DN150 to DN225 4.5 - Configurations as shown in Standard drawings 4.6 - As per accepted product 4.7 - Inlet and Outlet Sewer connection RRJ 4.8 - Cap as shown in Standard Drawings 4.9 - As per Standard Drawings 4.10 - Connect to PCV-U DWV pipe 4.11 - Max depth 3.0 metres FSL to Invert of Sewer Pipe	Aymroo	Aymroo	DN300 PVC-U Riser Shaft	Configurations of "Central Axis" maintenance shaft (CAMS) are not accepted		Refer to clause 7.7.2 of the SEQ Sewerage Code		NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER
311	Maintenance Shafts PE	322 4.1 - As per Standards 4.2 - As per Specifications 4.3 - As per Standards 4.4.1 - Inlet and Outlet at DN150 to DN225 for PVC RIGSS 4.4.2 - Inlet and Outlet at DN160 to DN250 for PE Nusewer 4.5 - Configurations as shown in Standard drawings 4.6 - As per accepted product 4.7.1 - Inlet and Outlet PVC Sewer connection RRJ 4.7.2 - Inlet and Outlet PE Sewer connection Electrofusion 4.8 - Cap as shown in Standard Drawings 4.9 - As per Standard Drawings 4.10 - Max depth 3.0 metres FSL to Invert of Pipe	Smartstream	Poo-Pit		RIGSS DN300 PVC riser shaft. Nusewer fully welded with DN315 PE risers and sewer stubs.	Approved for DN150 to DN225 RIGSS only. Refer Standard Drawing SEQ-SEW-1314 Set for other approved PE MS and MH options	Approved for DN150 RIGSS only. Refer to clause 7.7.2 of the SEQ Sewerage Code	Considered on case by case basis Size range DN150 to DN225 RIGSS only	Max depth of 5.0 meters is acceptable	
312	Maintenance Shafts Polypropylene	341 4.1 - DN425 Corrugated Risers 4.2 - DN425 PP Base, PP Riser, DICL Cone 4.3 - Riser pipe stiffness SN4 4.4 - DN150 or DN225 DWV PVC connections 4.5 - Configurations: In-line, 30° 60° 90° bends, and 4-way 4.6 - Ribbed base and corrugated riser 4.7 - EPDM or SBR Ring Joints RIGSS connections. DN425 4-way riser junction for riser connections. 4.8 - No locking or relief cap 4.9.1 - Top-hat Class B Frame and Cover 4.9.2 - Top-hat Class D Frame and Cover 4.9.3 - Concrete encased cover arrangement Class B (sloped installations) 4.10 Max depth 3.0 meters to Invert of Sewer Pipe, with 5m water table	Iplex	EZIpit PA 09/01	DN425	Refer Standard Drawings Wavin Tegra 425 base + EZIpit riser				NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER
313	Maintenance Shafts Polypropylene	341 4.1 - DN300 Risers 4.2 - PVC Riser 4.3 - SN8 riser pipe 4.4 - DN150 sewer 4.5 - In-line and bends and tees 4.6 - Base ribbed, Riser Solid Wall PVC 4.7 - EPDM or SBR Ring Joints RIGSS 4.8 - Locking relief cap as per Standard Drawings 4.9 - Standard MH surround, cover and frame 4.10- Max depth 3.0 meters to Invert of Sewer Pipe	SMS		SMS PA 09/08 parts 0 to 5 Code: MS1 Code: MS2 Code: MS5	Refer Standard Drawings				NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER
314	Maintenance Shafts Polypropylene	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		OD400-GD (Type H12) OD400-RML (Type H13)	Refer Standard Drawings				NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER
315	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	EZIpit PA 09/01	DN600	Refer Standard Drawings Wavin Tegra 600 base + EZIpit riser				NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER Max depth 6.0 meters to Invert of Sewer Pipe
316	Maintenance Chambers Polypropylene	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
317	Maintenance Chambers Polyethylene (PE)	338 4.1 - DN600 PE Riser 4.2 - PE Riser and Cone 4.3 - Riser pipe stiffness SN4 minimum 4.4 - Inlet and Outlet at DN150 to DN225 for PVC RIGSS 4.5 - Configurations as shown in Standard drawings - same as Type J 4.6 - Plain Wall PE Rotomould 4.7 - Inlet and Outlet PVC Sewer connection RRJ 4.8 - No Locking Cap 4.9 - Concrete Spreader slab and 600 MH Cover 4.10 - Max depth 3.0 meters to Invert of Sewer Pipe	Smartstream	Mini pit	DN600				Considered on case by case basis	NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER
318	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

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 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
319	Pre-cast Maintenance Holes	323 4.1a - DN1000 minimum MH 4.1b - DN600 minimum MS 4.2 - Configurations as per Standard Drawings 4.3 - No step irons or ladders 4.4 - Elastomeric and Butyl rubber seals accepted 4.5 - Calcareous aggregates no additional sacrificial cover 4.6 - No special treatments 4.7 - Base format as per SEQ SP approval 4.8 - Configurations as per Standard Drawings	Humes		MH and MS DN150 and DN225 sewers	Refer Standard Drawings. Use for larger Sewer DN's and MH diameters is subject to acceptance by SP. Max depth of DN600 MS FSL to Invert of Pipe is 3.0 meters.	DN600 Pre-cast pre-benched Channel base and Bowl base Maintenance shafts approved as shown in Standard Drawings	Use of MS is considered on case by case basis	Use of MS is considered on case by case basis	NOT ACCEPTED BY SP	Pre-cast MHs accepted for RIGSS Use of MS is subject to acceptance by SP Pre-cast MHs not Accepted for NuSewer	
320			Rocla									
321			Civilmart	Civilmart (BCP Precast)								
322	Pre-cast Concrete Converter Top Slab	No WSA PS 1 - Refer Standard Drawings	Everhard			Refer Standard Drawings. Calcareous aggregates to be used	Use is Subject to acceptance by SP					
323			Civilmart									
324			Australian Quality Precast									
325			Aquarius Precast									
326			First Contact Civil Supplies									
327	Civilcast									Use is Subject to acceptance by SP		
328	Plastic Maintenance Holes	339 for PE MHs 4.1 - Minimum DN1000 Riser and DN600 neck 4.2 - PE Riser and Cone 4.3 - Riser stiffness as advised by Manufacturer 4.4 - Nominal sizes as per Standards and SP requirements 4.5 - Configurations as per Standards and SP requirements (For RIGSS Refer Type K1 on SEQ Code Standard Drawing SEQ-SEW-1314-2) 4.6 - Ladder as per SP requirements 4.7 - Roto moulded riser wall construction 4.8 - Welded (electrofusion or butt) connection for Nusewers; RRJ connection for RIGSS 4.9 - Colour of internal surfaces as per Standard Product 4.10 - Surface cover and frame as per Standards	Smartstream	Smart Pit	DN1050	Refer Standard drawings Max depth FSL to Invert of Pipe is 3.0 meters	Currently approved to be used as maintenance chamber or maintenance shaft only	Considered on case by case basis Max. depth 6.0 meters to invert of sewer pipe	Considered on case by case basis	Use is subject to acceptance by SP		
329												
330		340 for PP MHs 4.1 - Minimum DN1000 Riser and DN600 neck 4.2 - PP Riser and Cone 4.3 - Riser Pipe Stiffness SN4 4.4 - Nominal sizes as per Standards 4.5 - Configurations as per Standards 4.6 - Ladder as per SP requirements 4.7 - Ribbed base and corrugated riser 4.8 - RRJ connection for RIGSS 4.9 - Colour of internal surfaces as per Standard Product 4.10 - Surface cover and frame as per Standards	Rehau	AWASHAFT	DN1000		Use is subject to acceptance by SP			NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER Max depth 6.0 meters to Invert of Sewer Pipe	
331			Iplex	Ezipit	DN1000						ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER Max depth 6.0 meters to Invert of Sewer Pipe	
332	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	
333			Ingal EPS									Accepted Height 12.0 m
334			McBerns									Use is subject to acceptance by SP
335	Valve box and cover C.I. & D.I.	No WSA PS 1 - Refer details on SEQ Code Standard Drawing SEQ-WAT-1305-1	Vladux			Refer Water Code Standard Drawings for approved Valve Box and Cover Class D Cover Bitumen coated to AS 3750.4				Only Class D accepted		
336			NIBF									
337			Gatic / Milne									
338			Civilmart	Hygrade Water								Hygrade Water
339			Daemco									As per drawing SEQ-WAT-1305-1 Type B
340			Civil Pipes	Civil Pipes								Use is subject to acceptance by SP
341	Valve pit access cover and frame	290 4.1 - 600 x 900 mm (Min.) 4.2 - Solid top, Sealed Type 4.3 - 600 x 900 mm Clear Opening (Min.) 4.4 - Class B for non-trafficable areas and Class D for trafficable areas 4.5 - Lifting Key as per Standard Drawings 4.6 - Markings to AS3996 Clause 1.6 (a) to (f). 4.7 - Hinged (Unitywater requires non-hinged access cover) 4.8 - Standard Packaging and Delivery 4.9 - No specific markings required 4.10 - Standard Coating 4.11 - Bolt down requirement by design 4.12 - Weatherproof (sealed) Aluminium 4.13 - Rocking of cover in frame not permitted	McBerns (Aluminium)			Refer Standard Drawings SEQ-SPS-1602-1 and SEQ-SPS-1606-1	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
342			Gatic									
343			Civilmart									
344			Webforge									
345			Hygrade									
346			EJ									
347			Durham									
348			Ducast									
349	Mass Products (Aluminium)											
350	Valve pit lightweight polymeric lids and frames (non-corrosive)	292 4.1 - 600 x 900 mm (Min.) 4.2 - 600 by 900 mm Clear Opening (Min.) 4.3 - Standard Lifting Key 4.4 - Markings to AS3996 Clause 1.6 (a) to (f) 4.5 - Standard packaging 4.6 - No specific markings required 4.7 - Class B for non-trafficable areas and Class D for trafficable areas 4.8 - Bolt down requirement by design 4.9 - As per Design	Prime Composites			Refer Standard Drawings SEQ-SPS-1602-1 and SEQ-SPS-1606-1	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
351			EJ									
352			Terra Firma									
353			ACO SAKU									

SEWERAGE MISCELLANEOUS ITEMS

A	B	C	D	E	F	G	H	I	J	K	L
	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
1											
354	Loose PE sleeving to DI pipe	320 4.1 Cream Colour to POP203	Viadux Crevet	BLUEBOSS Cream		Mandatory sleeving to all DI pipe unless DI pipe manufacturer supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	Gravity pipe Grey colour Pressure pipe Cream colour	Gravity pipe Grey colour Pressure pipe Cream colour	Gravity pipe Grey colour Pressure pipe Cream colour		
355											
356	Embedment material - crushed rock	351 4.1 - Single sized 4.2 - Nominal 5 or 7 mm									
357	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
358	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									
359	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
360			ARI Flow control								
361			Bernad								
362	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	Vent-O-Mat AVFI ISCO Odour Technologies	ARV-3-N Vent Master PX Vinloc-Smartvalve	DN50-DN200	PN16, Anti Slam as required, Thermal bonded polymeric coating or 316 Stainless steel	DN225 and larger mains to only use Vinloc-Smartvalve	NOT ACCEPTED BY SP	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
363									VS-4 Smartvalve Accepted		
364											
365											
366	Non-return valves - Swing check with counterweight lever arm	264 Refer Appendix B of AS4794 4.1 - Class PN16 min 4.2 - Size by Design 4.3 - Medium - Sewage 4.4 - Installation - Horizontal 4.5 - Spindle - Extended 4.6 - Lever and Counterweight minimum with switches and indicators by Design 4.7 - Flanged to AS 4087 Figure B5	HMA Valveco Dobbie Dico AVK AVK Challenger Valves AVFI Pty Ltd	Valmatic Swing-flex Dobbie Dico AVK Swing Check Valve 41/25 AVK Swing Check Valve 41/8X Challenger - RSSC AVFI - RSSC	DN50 - DN600 DN80-DN900 DN50 DN80-DN300 DN80-DN375 DN50-DN300	MIN. PN16, Thermal bonded polymeric coating	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP
367											
368											
369											
370											
371											
372	Non-return valves - free acting (without counterweight) Swing Check	264 Refer Appendix B of AS4794 4.1 - Class PN16 min 4.2 - Size by Design 4.3 - Medium - Sewage 4.4 - Installation - Horizontal 4.5 - Spindle - Extended 4.6 - Flanged to AS 4087 Figure B5	HMA Valveco Dobbie Dico AVK AVK Challenger Valves AVFI Pty Ltd	Valmatic Swing-flex Dobbie Dico AVK Swing Check Valve 41/25 AVK Swing Check Valve 41/8X Challenger - RSSC AVFI - RSFC	DN50 - DN600 DN80-DN900 DN50 DN80-DN300 DN80-DN375 DN80 - DN600	MIN. PN16, Thermal bonded polymeric coating	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP
373											
374											
375									Use is subject to acceptance by SP		NOT ACCEPTED BY SP
376											
377											
378	PVC-U Fabricated Fittings Fibreglass reinforced PVC Type 'D' junctions & fittings	230 4.1 - Plain Wall 4.2 - Solvent Cement joints for Fabricated assemblies with Elastomeric Seal on Fitting Socket Ends 4.3 - Pipe DN100 @ SN10 min and Pipe DN150 and larger SN8 min. Fittings SN6 min 4.4 - SBR & EPDM 4.5 - Heavy Duty fittings are separately listed	Vinidex Iplex Holman Industries M.E. Christensen	Deep Sewer Junction & Reinforced Fittings such as Oblique Junctions and House Connection Bends and Inspection Tees	DN100-300	DWV uPVC Moulded Fitting reinforced to SEQ Standards. Type D Junction from moulded fittings welded and fibreglass wrapped. 45 Deg Oblique Jn and Property Connection bends and Inspection Tees fibreglass wrapped. Fabricator has Certification to Section 6 of AS/NZS 1260 and fittings Fibreglass wrapped as shown on the drawings SEQ-SEW-1104-1 and SEQ-SEW-1105-1.				NOT ACCEPTED BY SP	DN100 at SN10, DN150 and larger at SN8 and Fittings at SN8 minimum
379											
380											
381											
382	PVC-U SN8 long radius bends	236 4.1 - SN8 minimum 4.2.1 - DN150 only, 3.0 metres radius as a heat formed bend with standard socket and spigot RRJ ends. No ovality variation permitted. 4.2.2 - DN225 only, 3.0 metres radius preferred, spigot spigot ends as a heat formed bend or as a fibreglass wrapped fabricated bend with 7.5 degree segments with 300 mm to 400 mm segment length on inside springline 4.2.3 - All long radius bends by Certified fabricators to AS/NZS 1260 Section 6 4.3 - SBR & EPDM	Vinidex Iplex Tri Underground Holman Industries M.E. Christensen	Long radius 3000 mm bends	DN150 as bent pipe & DN225 as bent or fabricated pipe	AS/NZS 1260 SN8. DN150 Bends available from 5Deg to 45Deg. DN225 and larger individually fabricated to 45Deg.				NOT ACCEPTED BY SP	
383											
384											
385											
386											
387	PVC-U fully moulded SN8 and SN10 heavy duty junctions, bends and inspection tees	230 4.1 - Plain wall 4.2 - RRJ 4.3 - Min SN10 for DN100 and SN8 for DN150 and larger 4.4 - NBR or SBR or EPDM 4.5 - Heavy duty fittings shall be used 4.6 - One piece fully moulded 4.7 - Fibre reinforcement is not required	Holman Industries Plastec	Holman/Fabfit Plastec	DN100 and DN150	Currently approved are: Heavy duty RRJ Junctions (45 degree), bends (43, 45 and 88 degrees) and inspection tees for property connections SN rating (SN8 or SN10) and letters "Heavy Duty" (Super Duty) shall be imprinted on the surface of fittings. These one piece fully moulded fittings junctions and bends are to be used for Type A and B sewer property connections and are approved alternatives to the currently approved multi-piece fabricated fibre reinforced fittings				Use is subject to acceptance by SP	
388											

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 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
389	Fully moulded heavy duty DWV RRJ Slip Coupling	230 4.1 - Plain wall 4.2 - RRJ 4.3 - Min SN10 for DN100 and SN8 for DN150 and larger 4.4 - NBR or SBR or EPDM 4.5 - Heavy duty fittings shall be used 4.6 - One piece fully moulded 4.7 - Fibre reinforcement is not required	Holman Industries	Holman/Fabfit	DN150	SN rating (SN8 or SN10) and letters "Heavy Duty" (Super Duty) shall be imprinted on the surface of fittings. This one piece fully moulded fitting is to be used for Type A and B sewer property connections.	Use is subject to acceptance by SP		Considered on case by case basis	Use is subject to acceptance by SP		
390	PVC-U heavy duty maintenance hole inspection bends	230 4.1 - Plain wall 4.2 - RRJ 4.3 - Min SN10 for DN100 and SN8 for DN150 and larger 4.4 - NBR or SBR or EPDM 4.5 - Heavy duty fittings shall be used 4.6 - Two moulded pieces welded by factory 4.7 - Fibre reinforcement is not required	Plastec	Plastec	DN100 RRJ/Sp (#19712) DN150 RRJ/Sp (#19714) DN150 Sp/Sp (#20041)	SN rating (SN8 or SN10) and letters "Heavy Duty" (Super Duty) shall be imprinted on the surface of fittings. This fitting is to be used for maintenance hole internal drops. DN150 Sp/Sp (#20041) is to be used for retrofitting on AC sewers only.				Use is subject to acceptance by SP	Use is subject to acceptance by SP	
391	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									
392			Tapex									
393			Rain Harvesting	421		Use is subject to acceptance by SP						
394			Wenac							Acceptance yet to be determined		
395	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						
396	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		
397	Hydrophilic Seal			Hydrotite								
398				KuniSeal C-31 DS		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP			
399	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						
400				HD Series	Runner height of 30, 50, 75 and 100mm 110mm OD to 355mm OD (un-grouted annulus). May be used on carrier pipe diameters greater than 355mm OD where the annulus will be grouted	For SCL, DI, PE, PVC and GRP carrier pipes	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP		
401				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		Considered on case by case basis			
402	Kerb Markers	248 4.1 - SS, Copper Alloy 4.2 - S, IV, GV, SV, VV, RM 4.3 - Circular 4.4 - 19mm 4.5 - 40mm diameter				As per SEQ-SEW-1103-3 and SEQ-SPS-1508-2	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Stainless Steel SP USE ONLY	Only Brass markers accepted		
403	Camlock					S/Steel 316				Maximum DN100		
404	Protective internal lining - Polyethylene	No WSA PS (refer WSA 201 Manual for Selection and Application of Protective Coatings)	Steuler			Mechanically anchored PE lining cast into wall & underside of top slab. PE liner shall be light in colour i.e. either white, cream, beige or yellow.					PE lining Mandatory for Sewerage Pump Stations, Collector Manholes and Sewer Rising Main Discharge Manholes	
405			Agrusafe									min. 2.5 mm thickness
406			Bluey Technologies									
407			AKS									

SEWERAGE MISCELLANEOUS ITEMS

A	B	C	D	E	F	G	H	I	J	K	L	
	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
1	Protective internal coating - other coating types	<p>No WSA PS (refer WSA 201 Manual for Selection and Application of Protective Coatings) SEQ SPs requirements: 1 - Two component epoxy, solvent free, 100% solids 2 - Suitable for provision of single coats >=0.6mm thick 3 - Excellent stated resistance to Sulphuric Acid via Test results 4 - Minimum 15 minute Pot Life at 20 degrees C 5 - Light coloured 6 - Applied to manufacturers requirements 7 - Combined 10 year warranty from Applicator and Manufacturer</p>	Peerless Industrial Systems	Epigen 4029		Colour white to grey	Internal coatings at 2.0 mm thick via minimum of two coats – this requirement overrides Note G14 on SEQ-SPS-1402-1.	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Considered on case by case basis (minimum 2.0 mm thickness) Only cementitious or epoxy mortars to be used on existing concrete structures. (Mortar coating minimum 25mm thick)	Use is subject to acceptance by SP (Mortar coating typically 25mm thick)	Use is subject to acceptance by SP (minimum 2.0 mm thickness)	
408												
409			Sika Australia	Sikagard - 63N								
410			Hychem Epoxy Systems	Hychem TL5								
411			International Paints	Ceilcoat 2000 Flakeline								
412			ITWPF	Epirez 733UHB								
413			Fernco / JDP Applications	Ultracoat Epoxy Coating								
414			Interflow	Interchem CAC								
415			BASF	MasterSeal 7000CR								
416			Building Chemical Supplies	Ombran MHP Ombran MHP SP3000								Accepted are Ombran MHP15 and MHP SP3000 Cementitious profiling and coating with min thickness of 12mm to be used for concrete MH repairs
417												
418												
419	Protective external coating	<p>No WSA PS (refer WSA 201 Manual for Selection and Application of Protective Coatings) SEQ SPs requirements: 1 - Two Component solvent free polyurethane 2 - Suitable for provision of single coats >=0.6mm thick 3 - Excellent stated resistance to Sulphuric Acid via Test results 4 - Minimum 15 minute Pot Life at 20 degrees C 5 - Light coloured 6 - Applied to manufacturers requirements 7 - Combined 10 year warranty from Applicator and Manufacturer</p>	Steuler KCH	Oxydur PTB		Colour white to grey & heritage green	Use is subject to acceptance by SP. External coatings at min 0.3 mm thick dry film via single coat. Sulphuric Acid Resistance to suit site conditions. SP Approved Equivalents are the listed Internal coatings	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	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)	
420	Precast concrete packaged sewage pumping stations	<p>No WSA PS 1 - Suppliers to manage the project and to coordinate the construction</p>	Aquatec		DN2.25m and DN3.20m	To be used for reticulation systems only (not for trunk sewers) Subject to geotechnical conditions (e.g. not be used for water charged areas)	Accepted as per Aquatec CoGC version drawing sets 2019.COGC.STD.2250.01 – 07 and 2019.COGC.STD.3200.01 – 07 submitted on 22/11/2019	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	DN1.80m DN2.25m DN3.20m and DN3.60m Use is subject to conditions - Refer to SP	
421			Xylem		DN1.80m, DN2.20m and DN3.0m		Accepted as per Xylem CoGC version drawing set Sheet 1 – Sheet 13 submitted on 22/11/2019				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	
Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)		Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
Category: WATER SUPPLY PIPES - PRESSURE												
422	PVC-M pipe	209 4.1 - PN16 4.2 - Drinking Water 4.3 - Series 2 only 4.4 - Blue 4.5 - SBR & EPDM	Iplex	RHINO	DN100 to DN450	Reiber ring accepted				Only accepted where PE is unsuitable	NOT ACCEPTED BY SP	
423			Vinidex	Hydro								
424			Viadux	Plaspip								
425			Micron Pipelines	Micron Pipelines								DN100 to DN300
426			Pipemakers	Pipemakers Enviromain								DN100 to DN300
427	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	Series 2 PN16, Min SN 10 MRS400 or MRS450	NOT ACCEPTED BY SP	SP USE ONLY	Use is subject to acceptance by SP	NOT ACCEPTED BY SP		
428			Vinidex	Supermain								
429			Micron Pipelines	Micron Pipelines								DN100 - DN375
430			Pipemakers	Alphamain								DN100 to DN150
431				TOM®	Up to DN 375							
432	DI Pipe	200 4.1 - All Pressure Classes - see Column F 4.2 - As per SP's requirements - see Column G-K 4.3 - As per accepted product 4.4 - All pipes to be polyurethane or Zn-Al alloy and epoxy coated. 4.5 - Restraint Joint Seals by SP approval 4.6 - SBR & EPDM 4.7 - PE sleeving is required on ALL DI pipes unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	Vinidex	ZAP-GP	DN250 - 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	
433			Clover Pipelines	Clover/Xinxing (ZnAIRE400)								
434			Jindal SAW / Iplex									
435			Jindal SAW / Iplex	Jindal SAW	DN100 to DN750 (not 225)	PN 35 and Flange Class, GP or SR lining	Coating shall be minimum 400g/m2 Zn-Al alloy +100µm synthetic resin, or minimum 900µm polyurethane or approved equivalent.	Seal coat on all pipe sizes	Seal coat on pipes >= 450	Seal coat on pipes >= 450	Accepted where PE is unsuitable for reticulation mains. Accepted for mains > 300 NB. Seal coating required for all sizes.	Use of Clover Pipelines and Beaver-Jindal is subject to acceptance by SP
436			Xinxing / Iplex	Ironite (XINAL400+ coating)	Up to DN 750 (not 225)							
437			Vinidex	ZAP-GP								
438			Saint-Gobain	PAM/TYTON Hydroclass Zinalium	DN100 - DN750 (not 225)	PN35 and Flange Class	400g/m2 Zn/Al+100µm epoxy or min 900 micron Polyurethane external coating	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Accepted where PE is unsuitable for reticulation mains. Accepted for mains > 300 NB. Seal coating required for all sizes.	Use is subject to acceptance by SP
439			Viadux	DIMAX/TYTONXCEL Z+								
440			Clover Pipelines	Clover/Xinxing (ZnAIRE400)	DN100 to DN300 (not 225)							
441			Clover Pipelines	Clover/Samsun	DN100 to DN300 (not 225)	Min 1300 micron Polyurethane internal lining		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Accepted where PE is unsuitable for reticulation mains. Accepted for mains > 300 NB. Seal coating required for all sizes.	Use is subject to acceptance by SP
442	Reece / Viadux	DIMAX/TYTON XCEED Z+	DN100 to DN750 (not 225)									
443	Jindal SAW / Iplex	Jindal SAW										
444	DI Pipe - ISO	202 4.1 - K9-PN35 4.2 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.3 - Restrained Joints on Zinc/Bitumen coated pipe 4.4 - Polyurethane without seal coating 4.5 - Only Polyurethane coating on aerial pipes 4.6 - SBR, EPDM or NBR 4.7 - PE sleeving is required on ALL DI pipes unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	VonRoll / Reece	Ducpur/ Ecopur	DN80 - 700	Polyurethane internal protection	Detector Tape for ISO Pipe spirally wound along pipe and over PE sleeve.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
445												
446	Small DN Ductile Iron Water Main pipe at PE OD's	No WSA PS 1 - PN16 minimum	Saint-Gobain PAM	BLUTOP	DN75-DN160	Restrained Joints PN16. Unrestrained joints PN25	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
447	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	
448			Pipe Lining and Coating	Fusionkote	OD168, 219, 257, 273, 324 to 3624							

A	B	C	D	E	F	G	H	I	J	K	L	
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
449	PE pipe	207 4.1 - PN16 4.2 - Drinking and Non-Drinking Water 4.3 - Coil pipe permitted up to DN125 with pipe lengths for larger DN 4.4 - Black with Blue stripes or solid Blue colour for Drinking Water and Black with Purple stripes or solid Purple colour for Non-Drinking Water, refer POP203. 4.5 - PE100 only	Iplex		DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800	PE100 PN16. Blue colour - solid or striped for drinking water. Purple colour - solid or striped for non-drinking water. For directional drilling installations, minimum SDR 9 (PN20 PE100) unless specified otherwise and install with tracer wire. Pipe wall thickness to be designed for installation forces. Butt welded joints are mandatory for HDD construction where continuous pipes on coil are not available	1 - Used as Water Service pipe at DN25 and larger 2 - Used as Drinking Water main at DN63 and DN110 in Dual Water Supply 3 - Used as A+ Non Drinking Water main for Cul-de-sac terminal end at DN63 in Dual Water Supply 4 - Used as Drinking Water main for Cul-de-sac terminal end at DN63 in traditional Drinking Water Reticulation	Approved for water services and water mains <= DN63 only. Other uses, or the use of larger diameters, are considered on case by case basis	Use is subject to acceptance by SP	PE is preferred pipe material for reticulation mains in single and dual water supply systems - PE shall be used for reticulation mains unless specific site conditions dictate otherwise. Either solid or striped colours are permitted for single and/or dual water supply systems.	NOT ACCEPTED BY SP	
450			Vinidex									
451			David Moss Corporation	DAMOS								
452			Cromford	Identii-pipe								
453			Poly Pipe									
454			Enviropipes	Enviropressure								
455			ACP	ACP								DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315
456			Pipemakers	Pipemakers								
457	Clover	Clover/Rohr	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800									
458	Acu-Tech	Acu-Tech										
459	ASA	Blueline	DN25, 32, 40, 50, 63, 90, 125		NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP				
460	PE pipe - High Stress Crack Resistant (HSCR) Polyethylene Pipe	207, POP016 4.1 - PN16 minimum 4.2 - Drinking and Non-Drinking Water 4.3 - Coil pipe permitted up to DN125 with pipe lengths for larger DN 4.4 - Black with Blue stripes or solid Blue colour for Drinking Water and Black with Purple stripes or solid Purple colour for Non-Drinking Water, refer POP203. 4.5 - HSCR PE100 only	Iplex	Millennium HSCR PE	DN25 32 40 50 63 90 125 180 250 315 355 450 560 630 800	For directional drilling and pipe bursting installations, minimum SDR 9 (PN20 HSCR PE100) unless specified otherwise and install with tracer wires. Pipe wall thickness to be specified as normal PE100 as such "extra" strength should be provided. Butt welded joints are mandatory for HDD construction where continuous pipes on coil are not available.	1 - Used as Water Service pipe at DN25 and larger 2 - Used as Drinking Water main at DN63 and DN110 in Dual Water Supply 3 - Used as A+ Non Drinking Water main for Cul-de-sac terminal end at DN63 in Dual Water Supply 4 - Used as Drinking Water main for Cul-de-sac terminal end at DN63 in traditional Drinking Water Reticulation	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
461			Acu-Tech	Acu-Tech								
462			David Moss Corporation	DAMOS								
463	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		
464	CC-GRP (centrifugally cast) pipe and Fittings - Water main	237 4.1 - PN16 minimum 4.2 - SN 10,000 minimum 4.3 - Sp-Sp RRJ Coupling and FI Joints 4.4 - Standard Glass 4.5 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN400 - DN1400	Minimum SN10000, PN16	Use is subject to acceptance by SP. DI Fittings preferred	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP		
465	FW-GRP (filament wound) pipe and Fittings - Water main	205 4.1 - DN300 and larger 4.2 - PN16 minimum 4.3 - SN 10,000 minimum 4.4 - Standard bend forms permitted 4.5 - Sp-Sp RRJ Coupling and FI Joints 4.6 - Standard Glass 4.7 - SBR & EPDM	Flowtite / Iplex	Flowtite	DN300 - DN3000	Minimum SN10000, PN16	Use is subject to acceptance by SP. DI Fittings preferred	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP		
466			Global Pipe	Fiberstrong	DN300 - DN4000							
467			Superlit / Clover Pipelines	Superlit	DN300 - DN3000							
468	Stainless Steel Pipe	No WSA PS 1 - Refer to WSAA Materials Fact Sheet No:2 Selection of Stainless Steels 2 - Refer to WSAA Materials Fact Sheet No:3 Fabricating Stainless Steels	ASSDA accredited fabricators	N/A	DN20 - DN750	Min. Grade 316. Min. PN16. Flange to AS4087 Fig B5	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
469			MM Kembla	KemPress	DN15 to DN100	Min. Grade 316 Min. PN16					Considered on case by case basis	

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470	Category: WATER SUPPLY FITTINGS - PRESSURE											
471	Lightweight DI bends, tees/branches & connectors	201 4.1 - Soc-Soc, Soc-FI & FI-FI 4.2 - PN16 fittings 4.3 - Restraint Joint Seals by SP approval 4.3 - SBR & EPDM	Viadux	Auslite	DN100 & DN150	Lightweight fittings.					Use of Restrained Joint Rubber Rings (Tyton-Iok) subject to acceptance by SP	
472			Dobbie Dico	Dobbie	DN100 to DN150	Thermal bonded polymeric coating.	Use is subject to acceptance by SP	Use is subject to acceptance by SP				
473			Himgiri Castings/Galvin Engineering / CivilPipes	Galvin	DN100 & DN150	All DI fittings to be wrapped			Use is subject to acceptance by SP			
474			Clover Pipelines	Clover	DN100 to DN150							
475	DI bends, tapers, tees/branches, connectors, risers & caps/blank ends	201 4.1 - Soc-Soc, Sp-Sp, FI-FI, Soc-Sp, Soc-FI & Sp-FI 4.2 - Standard and PN16 fittings 4.3 - Restraint Joint Seals by SP approval 4.4 - SBR & EPDM	Viadux	Tyton Joint & Sureflow	Up to DN750	Thermal bonded polymeric coating. All DI fittings to be wrapped					Restraint joint seals not suitable for: PN20 pipe; Aboveground applications; Combining joint restraint and thrust blocks; Epoxy or fusion coated spigots; Other manufacturers sockets or other pipe materials. Use of Restrained Joint Rubber Rings (Tyton-Iok) subject to acceptance by SP Caps / Blank Ends not accepted	
476			Crevet / Iplex	Crevet								
477			Vinidex	Superlink								
478			Derwent Industries		Up to DN750							
479			Gillies / Hygrade		DN100 to DN300							
480			Himgiri Castings/Galvin Engineering / CivilPipes	Galvin	DN80 to DN300							
481			Dobbie Dico	Dobbie	DN100 to DN250			Use is subject to acceptance by SP				
482			Mallet	Mallet	DN80 to DN750							
483	Clover Pipelines		DN100 to DN150									
484	Daemco	Daemco	DN80 - DN375			FI-Soc & FI-Sp Connectors accepted up to DN375		FI-Soc & FI-Sp Connectors accepted up to DN375	FI-Soc & FI-Sp Connectors accepted up to DN375			
485	Reece	DIMAX	DN80 to DN300				Use is subject to acceptance by SP		Use is subject to acceptance by SP			
486	DI mechanical couplings - Non End Thrust Restraint	270 4.1 - PN16 4.2 - All pipe materials except PE 4.3 - Long Series 4.4 - Straight Soc-Soc 4.5 - Stepped coupling require SP approval 4.6 - Flange end not used 4.7 - SBR & EPDM 4.8 - SS316 bolts, nuts and washers	Viadux	Gibault Ezigib & Vari-Gib		Long type only. All DI fittings to be wrapped. DI must have thermal bonded polymeric coating						
487			Crevet	Gibault & Universal Multigib	Up to DN750							
488			AVK	Gibault & Universal								
489				AVK Supa-Gib Couplings	Up to DN675							
490			Viking Johnson	MaxiFit, QuickFit								
491			Derwent Industries	Derwent	DN100 to DN300							
492			DEKS	DEKS FLEXI-GIB	DN80 to DN750							
493			Daemco	Reinoversal	Up to DN 600							
494	Clover Pipelines	Connect VPC	DN100 to DN600				CLOVER GIBALT NOT ACCEPTED BY SP					
495	Civil Pipes	CPS Uni-Gib	DN 80 - DN 300			Use is subject to acceptance by SP		Use is subject to acceptance by SP		Use is subject to acceptance by SP		
496	Stainless steel flexible couplings - Unrestrained	285 4.1 - Unrestrained for DI, AC, PVC, steel, GRP and concrete pipes 4.2 - PN16 min	Uniones Arpol SA / Global Pipe	ARPOL	DN150-DN1200	Arpol Instal for joining pipes and Arpol Rep for pipe repairs. Required torque as per manufacturer's requirement marked on each fitting		Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	

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497	DI mechanical couplings - End Thrust Restraint (Gripper Type)	<p>271</p> <p>4.1 - PN16</p> <p>4.2 - CI, DI, PE, SCL, AC</p> <p>4.3 - Long Series</p> <p>4.4 - Straight and Stepped and Flange Adaptor</p> <p>4.5 - All DN range options</p> <p>4.6 - Flange adaptors to be drilled as per AS/NZS 4087 Figure B5</p> <p>4.7 - SBR & EPDM & Nitrile</p> <p>4.8 - Use of pipe stiffener inserts for PE pipe as per fitting manufacturer's requirements</p> <p>4.9 - All DI fittings to be wrapped with CI and DI systems</p> <p>4.10 - Flange adaptors up to DN355 PE shall be full bore connection i.e. DN63 PE / DN50 FL, DN125 PE / DN100 FL, DN180 PE / DN150 FL, DN250 PE / DN200 FL, DN315 PE / DN250 FL and DN355 PE / DN300 FL</p>	Hawle / Hygrade Water	Synoflex PN16 Restraint	DN50-DN300	<p>Synoflex is manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DN's may not suit the same pipe DN's for some pipe materials and sizes (e.g. DN200 CIOD pipes). In this case a larger gripper socket DN may need to be used. Contractors need to check the suitable gripper socket DN's for their pipes.</p> <p>Does not require pipe stiffener inserts to be installed for PN16 (SDR 11) PE100 pipe.</p>	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater									
498			Georg Fischer	Multi joint 3000 Plus restraint		<p>Georg Fischer 3000 Plus is manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DN's may not suit the same pipe DN's for some pipe materials and sizes (e.g. DN200 CIOD pipes). In this case a larger gripper socket DN may need to be used. Contractors need to check the suitable gripper socket DN's for their pipes.</p> <p>Requires pipe stiffener insert to be installed when connecting to PE or PVC pipe.</p>						SP USE ONLY	The use of gripper type fittings on AC, DI and SCL pipe subject to acceptance by SP							
499			AVK / Fusion Plast Australia	Supa-Maxi	<p>AVK Supa-Maxi is manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DN's may not suit the same pipe DN's for some pipe materials and sizes (e.g. DN200 CIOD pipes). In this case a larger gripper socket DN may need to be used. Contractors need to check the suitable gripper socket DN's for their pipes.</p> <p>Requires pipe stiffener insert to be installed when connecting to PE or PVC pipe.</p> <p>The PE transition couplings rated PN10 are not accepted.</p>	SP USE ONLY Not accepted for use on PVC and GRP pipes End cap shall be used with thrust block						Use is subject to acceptance by SP								
500			Nova Siria/Hygrade Water	Multigrip	DN350-DN1400	Requires pipe stiffener insert to be installed when connecting to PN16 (SDR 11) PE100 pipe.						Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP						
501			Viking Johnson	UltraGrip	DN100 - DN300	Requires pipe stiffener insert to be installed when connecting to PN16 (SDR 11) PE100 pipe.						Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP. Not approved for use in acid sulphate soils and saline coastal environments.						
502			<p>245 for PE</p> <p>4.1 - PN16</p> <p>4.2 - SBR, EPDM and Nitrile</p> <p>4.3 - Use of pipe stiffener inserts for PE pipe as per fitting manufacturer's requirements</p> <p>4.4 - Flange adaptors up to DN355 shall be full bore connection i.e. DN63 PE / DN50 FL, DN125 PE / DN100 FL, DN180 PE / DN150 FL, DN250 PE / DN200 FL, DN315 PE / DN250 FL and DN355 PE / DN300 FL</p>	Hawle / Hygrade Water	System 2000	DN63-DN355						Does not require pipe stiffener inserts to be installed on PN16 (SDR 11) PE100 pipe.	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater			
503				AVK	Supa Plus Restraint	DN63 - DN315						Requires pipe stiffener inserts to be installed						SP USE ONLY	Use is subject to acceptance by SP	
504				Viking Johnson	Aquafast and Aquagrip Restraint							<p>Aquafast does not require pipe stiffener inserts to be installed on PN16 (SDR 11) PE100 pipe.</p> <p>Aquagrip Restraint coupling requires pipe stiffener inserts to be installed on PN16 (SDR 11) PE100 pipe.</p>								
505				Daemco	Xcel Restrained Coupling and Flange Adaptor	DN63 - DN315 for Coupling & DN63 - DN315 for Flange Adaptor						Does not require pipe stiffener inserts to be installed for PN16 (SDR 11) PE100 pipe.								Use is subject to acceptance by SP
506				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.								
507	DI flanged telescopic flexible fitting	<p>No WSA PS</p> <p>1 - Aligned to WSA PS-201 and WSA PS-270 with Flanges to AS 4087 Figure B5</p> <p>2 - To comply with WSA PS-201S when published</p>	Hawle / Hygrade Water	Vario	DN50 - DN200	SP USE ONLY	SP USE ONLY													
508	Small DN Ductile Iron Restraint Fittings at PE ODS	<p>No WSA PS</p> <p>1 - PN16 minimum</p>	Saint-Gobain PAM	IZIFIT	DN75-DN160	For use directly with PE and BLUTOP pipe.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP										
509	Pretapped connectors	<p>201</p> <p>4.1 - Soc-Soc only</p> <p>4.2 - Standard PN16 fittings</p> <p>4.3 - Restraint Joint Seals by approval</p> <p>4.4 - SBR & EPDM</p>	Derwent	Derwent	DN100 - DN300	<p>Thermal bonded polymeric coating</p> <p>DN100 to DN150 with 4 x 20BSP tappings at 2 per side and DN200 to DN300 1 x 50BSP tapping</p>	<p>NOT ACCEPTED BY SP</p> <p>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.</p>	<p>NOT ACCEPTED BY SP</p>	<p>SP USE ONLY</p>	<p>Use of pretapped connectors is under review</p>										
510			Clover Pipelines	Clover	DN100 to DN150															
511			Viadux	Readytap	DN100 to 300															
512			Crevet / Iplex	Pretapped	DN100 & DN150															
513			Vindex	Superlink	DN100 & DN150															
514			Himigiri Castings/Galvin Engineering / CivilPipes	Galvin	DN100 & DN150															
515			Daemco	Daemco	Up to DN300															
516	Viadux/Reece	DIMAX MaxiTap	DN1000 to DN300	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined													

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1	316 SS repair clamps, flanged off-take clamps & BSP tapping clamps	313 4.1 - Type R, Type F or Type R and Type F by SP approval 4.2 - Pipe DN by SP approval 4.3 - Off-take DN by approval 4.4 - Min. PN16	Crevet	Wang	DN100 to DN300	Flanged off-take clamps approved are Type R for DI, AC and CI host pipes and Type F for PVC-m, PVC-u only, to pipe manufacturers specifications. Host pipe to be of suitable condition.	Use is subject to acceptance by SP	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	Type R accepted only In acid sulphate soils the clamp must be Densowrapped.
517			Viadux	Wang	DN100 to DN300						
518			Cascade Control	Rapid Clamps	DN40 to DN350						
519			Daemco	Norma Connect	DN80 to DN300						
520			AVK	AVK Series 748	Up to DN300						
521			Derwent		Up to DN300						
522			Cascade Control	Rapid Clamps CT2 tapping saddles	DN125 – DN355						
523			Derwent	Uniclamp	DN100 & DN150						
524			Nova Siria/Hygrade Water	Duofit	DN 300 - DN2000						
525			Hygrade Water Australia	cQuick Encapsulation Repair collar	DN 80 - DN200						
526	AVK	Series 208 Encapsulation Repair collar	DN 80 - DN200								
527	Hawle/Hygrade Water	Haku	DN110 to DN355								
528	Derwent	Uniclamp	DN125 and DN180								
529											

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530	Resilient Seated Gate Valves, thermal bonded polymeric coating.	<p>260</p> <p>4.1 - PN16</p> <p>4.2 - FI-FI, Soc-Soc, Sp-Sp, FI-Soc, FI-Sp and FI-gripper socket end configurations accepted</p> <p>4.3 - Integral By-pass on DN450 and larger (Not accepted by Unitywater and Urban Utilities)</p> <p>4.4 - Gear Box on DN600 and larger (Refer Mechanical List)</p> <p>4.5 - Anti-Clockwise closing</p> <p>4.6 - No requirement for spindle cap colour</p> <p>4.7 - Extension Spindle to WSA PS - 262</p> <p>4.8 - Spindle Cap</p> <p>4.9 - SBR & EPDM</p> <p>4.10 - Stiffener inserts for PE pipe as per manufacturers requirements</p> <p>4.11 - For Urban Utilities, RSGVs shall only be used on mains ≤ 300 NB</p>	AVK	Series 57 (light type only for DN100 & 150) Series 570 Series 55	Up to DN400 Up to DN600 DN450 to DN600	<p>Anchor legs approved</p> <p>All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted</p> <p>All DI fittings to be wrapped</p>	<p>DN500 and DN600 with DN100 By-pass</p> <p>DN750 with DN150 By-pass</p>			<p>Use is subject to acceptance by SP</p>	<p>Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.</p>	
531			Hawle / Hygrade Water	E2 E2 System 2000	DN100 - DN200 DN50 - DN300							
532			Hawle / Hygrade Water	E3 (FL-FL)	DN100-DN300							
533			Viadux	Series 500 Auslite Auslite II Bayard Sureflow Auslite III	Up to DN600 DN80, 100 & 150 DN100 to DN300 DN50 - DN200 Up to DN 600							
534			Karon / Challenger	Karon Karon (FL-FL light weight design) Karon (FL-FL integral bypass valves)	DN80 - DN600 DN80 - DN300 DN450 - DN600							
535			AVFI		DN80 - DN600							
536			Betta	BETTA	DN80 - DN600							
537			AAP Industries	Maxiflo/appFLO	DN80 to DN300							
538			Derwent Industries	Derwent	DN80 - DN600							
539			DAEMCO		DN80 to DN300 for Soc-Sp DN80 to DN375 for FL							
540			Reece	DIMAX	DN80 – DN600 (FI-FI) DN100 – DN300 (Soc-Soc) DN100 – DN300 (Sp-Sp)							
541			Resilient Seated Gate Valves, thermal bonded polymeric coating.	<p>278 (RSGVs with PE tails)</p> <p>4.1 - PN16</p> <p>4.2 - Anti-Clockwise closing Configurations accepted</p> <p>4.3 - No requirement for spindle cap colour</p> <p>4.4 - Extension Spindle to WSA PS - 262</p> <p>4.5 - Spindle Cap required</p> <p>4.6 - Integral By-pass on DN450 and larger (Not accepted by Unitywater and Urban Utilities)</p> <p>4.7 - For Urban Utilities, RSGVs shall only be used on mains ≤ 300 NB</p>	AVK							Series 36/80
542	Betta	Betta			DN100 & DN150							
543	Resilient Seated Gate Valves, thermal bonded polymeric coating.	<p>281 (RSGVs with restrained/gripper ends)</p> <p>4.1 - PN16</p> <p>4.2 - Anti-Clockwise closing Configurations accepted</p> <p>4.3 - No requirement for spindle cap colour</p> <p>4.4 - Extension Spindle to WSA PS - 262</p> <p>4.5 - Spindle Cap required</p> <p>4.6 - SBR & EPDM</p> <p>4.7 - Stiffener inserts for PE pipe as per manufacturers requirements</p> <p>4.8 - Integral By-pass on DN450 and larger (Not accepted by Unitywater and Urban Utilities)</p> <p>4.9 - For Urban Utilities, RSGVs shall only be used on mains ≤ 300 NB</p>	AVK	Series 01/71	Up to DN300	<p>All valves shall be restrained. All DI fittings to be wrapped.</p>	<p>NOT ACCEPTED BY SP</p>				<p>Use of gripper type RSGVs is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations</p>	
544			Hawle	E2 System 2000	DN50 - DN300							
545			Betta	BETTA	DN100 - DN300							
546			Derwent Industries	Derwent	DN100 - DN150							
547			DAEMCO		DN100 - DN150							
548	Resilient Seated Gate Valves, thermal bonded polymeric coating.	<p>260</p> <p>4.1 - PN25</p> <p>4.2 - FI-FI</p> <p>4.3 - Integral By-pass on DN450 and larger (Not accepted by Unitywater and Urban Utilities)</p> <p>4.4 - Gear Box on DN600 and larger (Refer Mechanical List)</p> <p>4.5 - Anti-Clockwise closing</p> <p>4.6 - No requirement for spindle cap colour</p> <p>4.7 - Extension Spindle to WSA PS - 262</p> <p>4.8 - Spindle Cap</p> <p>4.9 - SBR & EPDM</p> <p>4.10 - For Urban Utilities, RSGVs shall only be used on mains ≤ 300 NB</p>	Reece	DIMAX	DN80-300 (FL-FL)	<p>PN25</p> <p>Anchor legs approved</p> <p>All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted</p> <p>All DI fittings to be wrapped</p>	Use is subject to acceptance by SP			Use is subject to acceptance by SP		
549			Daepoong/ CNS Engineering	S- Gate Valve	DN100 - DN450	<p>Valve for Underpressure Line Stopping, suitable for rigid pipes with CI/OD compatibility, i.e. Ductile Iron, Cast Iron and Asbestos Cement</p> <p>Valves that are unable to be restrained are not accepted.</p> <p>All DI fittings to be wrapped</p>	SP USE ONLY	SP USE ONLY	SP USE ONLY	SP USE ONLY	SP USE ONLY	SP USE ONLY
550			Interflow	Infrastop	DN80-DN150	<p>Suitable for CI, DI, AC and Series 2 PVC (M & U) using solid plug. The expanding plug is suitable for PVC-M and U to 80m head.</p> <p>Not applicable on PE pipes</p>	Acceptance yet to be determined	SP USE ONLY	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	SP USE ONLY

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551	Metal seated gate valves, thermal bonded polymeric coating	261 4.1 - PN16 4.2 - Fl-FI 4.3 - Gearbox typically on DN600 and larger (Refer Mechanical IPAM List) 4.4 - Anti-clockwise closing 4.5 - No requirement for spindle cap colour 4.6 - Extension spindle to WSA PS-262 4.7 - Spindle Cap 4.8 - SBR & EPDM 4.9 - Integral bypass not accepted by Urban Utilities 4.10 - For Urban Utilities, MSGVs shall only be used on mains > 300 NB	AVK	Series 580	DN375 – DN600	All DI fittings to be wrapped. All valves shall be restrained	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Considered on case by case basis		Use is subject to acceptance by SP
552				Sureflow Series 2580	DN375 – DN600						
553	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
554	Butterfly Valves	263 4.1 - PN16 4.2 - Resilient seated wafer, lugged or double flanged	Iplex	AVK	DN50-600 for wafer/ lugged DN100-1000 double flanged	Body shall be ductile iron with fusion bonded polymeric coating external to 300 µm, internal to 350 µm (min.) or high-build two-pack epoxy to 500 µm (min.). Disc shall be stainless steel Grade 316. Shaft shall be stainless steel Grade 316, 410, 420, 430 or 431. Seat shall be EPDM, NBR or SBR. All fasteners shall be stainless steel Grade 316. Operation Type: Lever or Gearbox. Gearbox ratio as per manufacturer's requirement and coating – high build two-pack Epoxy 275 µm (min.)	DN100 to DN300 valves are wafer type for in-ground installations and are anti-clockwise closing operated. DN100 to DN300 valves are lugged type for above ground installations and are anti-clockwise closing operated. DN375 and larger valves are all double flanged type and are anti-clockwise closing gearbox operated	Considered on a case by case basis Direction of closing: Anti-clockwise	Considered on case by case basis Direction of closing: Anti-clockwise	Use is subject to acceptance by SP	Direction of closing: Clockwise Wafer or Lugged valves not accepted without prior approval
555			Emerson / Viadux	Keystone							
556			Ebro	Ebro							
557			AVFI	AVFI							
558			Valveco	Valveco							
559			Challenger	Challenger							
560			Reece	DIMAX							
561			Hydroflow Distributors	Watts							
562	Reece	Dura	DN50 to DN300	Use is subject to acceptance by SP	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	SP USE ONLY		
563	Hydrants	267 4.1 - DN100 Flanges	AVK	Series 30/00 non-swab and 30/10 for swab	Flange to AS 4087 Fig B5. Removable Top Cap & Internal Assembly. Thermal bonded polymeric coating. Purple body and lug for recycled water. PN16.	DN80 flange for SP Use Only. Swabbing type at main ends refer SEQ-WAT-1302-1.	Swabbing type at main ends refer SEQ-WAT-1302-1	Swab type only accepted.	Swab type only accepted.	Use is subject to acceptance by SP	Swab type only accepted. All new hydrants are to be 100 mm with 100 mm flanges, 100 mm risers and spring heads
564			Viadux	Sureflow							
565			Civil Pipe Supplies	BETTA normal & Swab							
566			AAP Industries	MAXIFLO/appFLO							
567			Derwent Industries	Derwent standard and Swab							
568			Dobbie Dico								
569			Weflo Valve / Reece	DIMAX							
570	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	Use is subject to acceptance by SP	Use is as directed by SP	Use is subject to acceptance by SP	
571				Retroguard							
572	Debris and Ant Barrier Device	No WSA PS	Hydrant Services	Ant and Debris Barrier		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is as directed by SP	Use is subject to acceptance by SP	
573	Hydrant and Air Valve Isolating Valves	282 4.1 - Flange inlet DN100 4.2 - Outlet DN100 4.3 - Outlet type to be hydrant or air valve	AVK		DN80 - DN100	Thermal bonded polymeric coating Min. PN16	SP USE ONLY	DN100 Flange to AS4087 Fig B5 Swabbing type at main ends refer SEQ-WAT-1302-1	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Mandatory for Hydrants on Trunk Water mains >DN300 Isolator Valve for Hydrant - Min. DN100 Clockwise Opening Direction
574			Viadux								
575			Betta / Clover Pipelines	Betta							
576			Crevet								
577	Valve box & cover C.I. or D.I.	No WSA PS 1 - Refer details on SEQ Code Standard Drawings SEQ-WAT-1305-1 and SEQ-WAT-1306-1	NIBF / Iplex			Class D cover Bitumen coated to AS 3750.4	Water Service ferrule Boxes for footpath are Viadux MFNSW-PTHXB 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	
578			Gatic / Iplex								
579			Civilmart								
580			Viadux								
581			Hygrade Water	Hygrade Water							
582	Daemco		As per drawing SEQ-WAT-1305-1 Type B								
583	Civil Pipes	Civil Pipes									
584	Hydrant box & cover C.I. or D.I.	No WSA PS 1 - Refer details on SEQ Code Standard Drawings SEQ-WAT-1305-1 and SEQ-WAT-1306-1	Gatic/Iplex			Class D cover Bitumen coated to AS 3750.4	Lids colour yellow are preferred to be painted in factory	Use is subject to acceptance by SP		Only Class D accepted	
585			NIBF / Iplex								
586			Civilmart								
587			Viadux								
588			Hygrade Water	Hygrade Water							
589	Daemco		As per drawing SEQ-WAT-1305-1 Type B								
590	Civil Pipes	Civil Pipes									

A	B	C	D	E	F	G	H	I	J	K	L
	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
591	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
592			Replas / Crevet								
593			Replas / Vinidex								
594			Replas / Civil Pipes								
595	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
596			Daemco	Daemco							
597	Valve extension spindles	262 4.1 - DN100 to DN525/600 4.2 - Length by Design 4.3 - Valve extension spindles shall be coated with a polymeric coating to AS 4158 with 350 µm DFT (minimum), or Valve extension spindles shall be hot-dip galvanized in accordance with AS 4680, or Valve extension spindles shall be injection moulded high strength, high stiffness glass fibre reinforced thermoplastic in accordance with the relevant sections of AS/NZS 2638.2:2011. 4.4 - Spindle support with bearing at 1 per installation minimum and at 1.8 m max spacings for pit installation	Viadux			AS2638 Compliant	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP
598			NIBF / Iplex								
599			Forge Bros / Vinidex								
600			Challenger								
601			Daemco								
602			ANT Infrastructure Technologies	ANT	Up to DN300				Considered on case by case basis		Use is subject to acceptance by SP
603	Steel fittings – bends, tees and reducers	204 4.1 - MPa 1.6 minimum 4.2 - DN by Design subject to SP approval 4.3 - Bends, tees, reducers and other types by design to SP approval 4.4 - As per SP requirement 4.5 - Fusion bonded polyethylene coating minimum 4.6 - Joint requirements by design 4.7 - Cathodic Protection by design 4.8 - Fusion bonded polyethylene lining 4.9 - Zinc metal spray as per the specification 4.10 - SBR & EPDM 4.11 - Fusion bonded polyethylene coating minimum	Steel Mains	Sintakote	OD114 - 2500			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
604			Pipe Lining and Coating	Fusionkote	OD168 - 3624						
605	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	
606	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					
607			NIBF / Iplex								
608	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								
609	Bolts	No WSA PS 1 - Refer details on SEQ-WAT-1313-1				316 Stainless steel bolts					
610	PE mechanical compression fittings for reduced size water mains	208 DN63 2.(a) - AS/NZS4129 or EN 1254 acceptable Certification 4.1 - PN16 minimum 4.2 - Mechanical Polyethylene, Polypropylene or Copper Alloy both with approved Plastic grippers/olives/thimbles 4.3.1 - Transition - PE to Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4.3.2 - Coupling - PE to PE 4.4 - Flange not used 4.5 - SBR & EPDM	George Fischer			Metal male fittings connecting to plastic female fittings is not accepted	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
611			Philmac / Philmac & Vinidex								
612			Plasson								
613			Talbot								
614			Alprene								
615			Iplex								
616			Viadux								
617	Hydroflow / SAB S.p.A	SAB Black Nut Blueseal									
618	Viega	Geopress K									
619	Zetco TOF					Only fittings with a Copper Alloy body and a Copper Alloy compression nut are approved for use	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP

WATER SUPPLY FITTINGS - PRESSURE

A	B	C	D	E	F	G	H	I	J	K	L					
	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater					
1																
620	PE Fittings - Moulded (for mains and large service pipes)	208 DN63 and larger 2.(a) AS/NZS4129 or EN 1555 or EN 12201 or EN 13244 is acceptable. 4.1 - PN16 minimum 4.2 - Electrofusion and butt weld 4.3 - Couplings, tees, bends, elbows/adjustable elbows, end caps, stub flanges, saddles, reducers 4.4 - AS 4087 compatibility for mating flange 4.5 - SBR & EPDM	Plasson		Up to DN710	Electrofusion fittings to be long type. Stub flanges only to be used for sizes DN450 and larger	Accepted where PE pipes are approved to be used	Accepted where PE pipes are approved to be used for DN63. The use of larger diameters is considered on a case by case basis	Accepted for DN63 and DN110	Hydrant saddles shall only be installed as an under pressure cut-in connection	Flanged tees and flanged saddles are not accepted by SP Hydrant saddles shall only be installed as an under pressure cut-in connection	Flanged tees and flanged saddles are not accepted by SP				
621			Georg Fischer	ELGEF Plus Draw - Lock												
622			Friatec / Vinidex	Frialen	Up to DN630											
623			Agru	Agru			Up to DN630				Long spigot fittings only accepted.					
624			Fusion Group / FusionPlast	Fusamatic			Up to DN630				Accepted where PE pipes are approved to be used					
625			NUPIGECO	Elofit			DN20 to DN710				Use is subject to acceptance by SP					
626			Plastitalia S.p.A / Hydroflow	PLAST			Up to DN630				Accepted where PE pipes are approved to be used				Hydrant saddles shall only be installed as an under pressure cut-in connection	
627			Plastitalia S.p.A / Advanced Piping Systems	PLAS			Up to DN630									
628			Fox Fittings Sp. / Advanced Piping Systems	Fox			Up to DN630					Use is subject to acceptance by SP			Use is subject to acceptance by SP	
629			Mako	Mako			Up to DN630								Only butt welded spigot fittings accepted	Only butt welded spigot fittings accepted
630			Simona / Plasson	Simona			Up to DN500				Use is subject to acceptance by SP	Accepted where PE pipes are approved to be used for DN63. The use of larger diameters is subject to acceptance by SP	Considered on case by case basis		Seamless sweep bends not accepted. Hydrant saddles shall only be installed as an under pressure cut-in connection	Seamless sweep bends not accepted
631			David Moss Corporation	DAMOS			Up to DN1000					Use is subject to acceptance by SP				Hydrant saddles shall only be installed as an under pressure cut-in connection
632			Fusion QLD	Flo Right			Up to DN450									
633	Guangdon Liansu / Crew Pipelines	Lesso		DN63 – DN800		Spigot fittings only accepted. 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 subject to acceptance by SP			Only butt welded spigot fittings accepted	NOT ACCEPTED BY SP					
634	PE fittings - Moulded - High Stress Crack Resistant (HSCR) Polyethylene (for mains and large service pipes)	208 DN63 and larger 2.(a) AS/NZS4129 or EN 1555 or EN 12201 or EN 13244 is acceptable. HSCR compounds shall comply with AS/NZS 4131 and POP016. 4.1 - PN16 minimum 4.2 - Electrofusion and butt weld 4.3 - Couplings, tees, bends, elbows/adjustable elbows, end caps, stub flanges, saddles, reducers 4.4 - AS 4087 compatibility for mating flange 4.5 - SBR & EPDM	Agru	Agruline	Up to DN630	Comply with AS4129, PN16, Electrofusion fittings to be long type. Stub flanges only to be used sizes Dn450 and larger.	Accepted where PE pipes are approved to be used Sizes of DN630 and above which are machined fittings are subject to acceptance by SP	Accepted where PE pipes are approved to be used	Use is subject to acceptance by SP	Accepted up to DN355. Hydrant saddles shall only be installed as an under pressure cut-in connection						
635	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 a case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP						
636			Pipestar	Pipestar	Up to DN355		Use is subject to acceptance by SP		Use is subject to acceptance by SP	Only sweep bends accepted.	Use is subject to acceptance by SP					
637	Copper compression fittings	No WSA PS	Viega	Propress	DN15-DN100		Use is subject to acceptance by SP	Accepted up to DN 25	Considered on case by case basis	Only accepted when connecting a new copper pipe to an existing copper water service	Use is subject to acceptance by SP					
638			MM Kembla	KemPress												
639	Full face PE flanges (for reticulation sizes)	208 (Moulded) DN63 and larger 2.(a) - AS/NZS4129 or EN 12201, EN 13244 or EN 14525 acceptable Certification 4.1 - PN16 minimum 4.2 - Electrofusion or Butt Weld 4.3 - Full Face Flange Adaptor with SS316 backing ring 4.4 - AS 4087 "Figure" compatibility for mating flange 4.5 - Refer "Flange Gaskets and 'O' Rings" above	Simona / Plasson	Simona		Metal insert in the flange, backing rings not required	Accepted where PE pipes are approved to be used	Accepted where PE pipes are approved to be used	Considered on case by case basis	NOT ACCEPTED BY SP	Use of stub flanges is subject to acceptance by SP					
640			Plasson		DN80 / DN100	DN90 riser with slotted flanges suit both DN80 & DN100 flanged hydrants										
641			Iplex		Up to DN355	Full face full bore connections										
642			Friatec / Vinidex	Frialen	Up to DN180	Metal insert in the flange, backing rings not required										
643			Fusion Group / FusionPlast	Fusamatic	DN90 to DN 450	Accepted where PE pipes are approved to be used Only DN125 – DN355 accepted										
644			David Moss Corporation	DAMOS	Up to DN355	Use is subject to acceptance by SP										
645		208 (Fabricated) DN63 and larger 2.(a) - AS/NZS4129 or EN 12201, EN 13244 or EN 14525 acceptable Certification 4.1 - PN16 minimum 4.2 - Electrofusion or Butt Weld 4.3 - Full Face Flange Adaptor with SS316 backing ring 4.4 - AS 4087 "Figure" compatibility for mating flange 4.5 - Refer "Flange Gaskets and 'O' Rings" above	Rodney / Vinidex	Maxi Stub	Up to DN450	Full face full bore connections	Accepted where PE pipes are approved to be used	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use of stub flanges is subject to acceptance by SP						
646	PE scour Tees	No WSA PS 1 - Compliance with AS/NZS 4129 & POP006 2 - PN16 Minimum 3 - Butt weld pipe joint with full face flange adaptor 4 - Flange compatible with AS 4087 Figure B5 and have SS316 backing ring	Vinidex / Rodney			Comply with AS4129	Accepted where PE pipes are approved to be used	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP							
647			Kingston Bridge / Iplex													
648	Air valves	265	ARI Flow control			Min PN16 Plastic body only permitted for DN20 and DN25 Double Orifice as required, Thermal bonded polymeric coating	DN40 and DN50 BSP threaded to have Brass base	DN40 and DN50 BSP threaded to have Brass base.	DN40 and DN50 BSP threaded to have Brass base.	Use is subject to acceptance by SP						
649			Bermad													
650			Vent-O-Mat		DN20-DN200											
651			AVFI	DAV-MH												
652			ISCO	Vent Master PX							NOT ACCEPTED 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 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
653	Non-return valves - Swing check with counterweight lever arm	264 Refer Appendix B of AS4794 4.1 - Class PN16 min 4.2 - Size by Design 4.3 - Medium - Water 4.4 - Installation - Horizontal 4.5 - Spindle - Extended 4.6 - Lever and Counterweight minimum with switches and indicators by Design 4.7 - Flanged to AS 4087 Figure B5	HMA Valveco	Valmatic Swing-flex	DN50 - DN600	Thermal bonded polymeric coating	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP		NOT ACCEPTED BY SP
654			Dobbie Dico	Dobbie Dico	DN80-DN900						
655			AVK	AVK Swing Check Valve 41/25	DN50						
656			AVK	AVK Swing Check Valve 41/8X	DN80-DN300						
657			Challenger Valves	Challenger - RSSC	DN80-DN375						
658	AVFI Pty Ltd	AVFI - RSSC	DN50-DN300	NOT ACCEPTED BY SP							
659	Non-return valves - free acting (without counterweight) Swing Check	264 Refer Appendix B of AS4794 4.1 - Class PN16 min 4.2 - Size by Design 4.3 - Medium - Water 4.4 - Installation - Horizontal 4.5 - Spindle - Extended 4.6 - Flanged to AS 4087 Figure B5	HMA Valveco	Valmatic Swing-flex	DN50 - DN600	Min. PN16. Thermal bonded polymeric coating	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use is subject to acceptance by SP
660			Dobbie Dico	Dobbie Dico	DN80-DN900						
661			AVK	AVK Swing Check Valve 41/25	DN50						
662			AVK	AVK Swing Check Valve 41/8X	DN80-DN300						
663			Challenger Valves	Challenger - RSSC	DN80-DN375						
664	AVFI Pty Ltd	AVFI - RSFC	DN50-DN300	NOT ACCEPTED BY SP							
665	Pressure reducing valves	268 See Appendix B of AS5081:2008	Bermad Water Technologies	Bermad	DN40 - DN900	Min PN16. Thermal bonded polymeric coating	Dorot 300 Series for Pressure Reducing Valve and for associated Pressure Relief Valve (Dump Valve) Dorot 200 Series or Bermad IR-43Q Valve	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP (In PRV installations where upstream pressures can be within 50 kPa of the required downstream pressure, Plasson C valves are preferred).
666			Singer / HMA Valveco	Singer							
667			Plasson Australia Pty Ltd	Plasson C-Valve							
668			Dorot Australia Pty Ltd	Dorot 300 Series							
669			Cla-Val Pacific / Challenger	Cla-Val	DN25-DN1200						
670	Pressure sustaining valves and altitude valves	268 See Appendix B of AS5081:2008	Bermad Water Technologies	Bermad	DN 40 - DN900	Min PN16. Thermal bonded polymeric coating	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
671			Singer / HMA Valveco	Singer							
672			Dorot Australia Pty Ltd	Dorot 300 Series	DN25-DN1200 (Sustaining)						
673			Cla-Val Pacific / Challenger	Cla-Val	DN-80-DN1200 (Altitude)						
674	PE Flex Restraint Fitting (used as puddle flange)	No WSA PS 1 - PN16 minimum	Georg Fischer	EF Flex Restraint	DN 180 - DN1600	PE100 In accordance with manufacturer's requirements	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
675			Plasson	Flex Restraint	DN180 - DN1600						
676	Mechanical Restraining Flange for PE Pipe	No WSA PS 1 - PN16 Minimum 2 - SS316 bolts, nuts and washers	Derwent Industries		DN125 and DN180		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use is subject to acceptance by SP
677	Dismantling joints for Flange Pipe and Fittings	284 4.1 - No alternative material grades 4.2 - As per manufacturer's requirements 4.3 - Configuration: FI-FI for DJ & FI/Sp for UniFlange 4.4 - Fitting type: thrust type and non-thrust type 4.5 - Thrust Restraint by Fitting 4.6 - SBR & EPDM	Viadux			Thrust restraint type and non-thrust type are Flanged to AS4087 PN16. SS316 bolts, nuts and washers. Larger sizes of UniFlange shall be assessed for available Fitting PN vs Pipeline Test Head.	Dismantling joints shall be restrained type only and for Mains only. Uni-flanges shall be for meter assemblies only	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	Uni-flange to be used within pit or aboveground locations only
678			Viking Johnson				Dismantling joints shall be restrained type only and for Meter Assemblies only. Use of uni-flange is subject to acceptance of SP.				
679			Valveco	Uni-Flange Adaptor	DN50-DN500		Uni-flanges shall be for meter assemblies only				
680			Hygrade Water	Pipemate	DN80-DN900		For Meter Assemblies only, restrained type only				
681			AVFI	AFD10 Series	DN80-DN1200		For Mains only, restrained type only				
682			AVFI	AFD20 Series	DN80-DN1200		For Meter Assemblies only, restrained type only				
683			IPLEX	Crevit	DN80 to DN750		For Meter Assemblies only, restrained type only				
684	Flowmeter - Network Meter	No WSA PS 4.1 - Flange to AS4087 Figure 5 4.2 - PN16	Emerson	Emerson		Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	ABB Water master	
685			ABB	ABB							Use is subject to acceptance by SP
686			Siemens	Siemens							E & H Promag W400
687			E & H	E & H							NOT ACCEPTED BY SP
688	Krohne	Krohne			Acceptance yet to be determined	Considered on a case by case basis	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined		

A	B	C	D	E	F	G	H	I	J	K	L					
Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)		Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater					
Category: WATER SERVICES																
689	Tapping bands for DI & PVC pipes	310 4.1 - DN100 to DN300 4.2 - With or Without Electrical Isolation 4.3 - Female Rp thread to AS ISO 7.1	Viadux			Gunmetal - Positive stops Tapping bands are not to be used on DI/CI pipes unless suitable electrical insulation is provided by either the tapping band or the pipe coating				RMC tapping band also accepted on AC pipe	SP USE ONLY					
690			Gatic / Milne													
691			RMC													
692			Clover	Clover	DN100-300 Type F for PVC (S2 only) and AC pipes											
693			Hydroflow	P & I	DN100-200 Type F for PVC (S1&2) and AC pipes											
694			4N Products & Stockbrands	4N	DN100, 150, 200											
695					Positive stops, coloured blue	NOT ACCEPTED BY SP		Considered on case by case basis	RMC tapping band also accepted on AC pipe		Use is subject to acceptance by SP					
696			Austworld	TPAB10020	DN100 Type F for PVC (S2 only) and AC pipes, outlet size DN20	Use is subject to acceptance by SP		Acceptance yet to be determined	Considered on case by case basis		SP USE ONLY					
697				TPAB10025	DN100 Type F for PVC (S2 only) and AC pipes, with DN25 outlet											
698	Tapping bands for PE - mechanical	310 4.1 - DN100 to DN300 4.2 - Without Electrical Isolation 4.3 - Female Rp thread to AS ISO 7.1	Gatic / Milne		DN63-DN315	Gunmetal - Positive stops Only for where E-F saddles are not practicable	NOT ACCEPTED BY SP				SP USE ONLY					
699			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										
700			Hawle / Hygrade Water	Haku	DN63 - DN315	Ductile iron lower half										
701			Hawle / Hygrade Water	Haku	DN280 - DN500	Stainless steel strap lower half. For min PN16 (SDR11) pipes						Accepted where PE pipes are approved to be used	Considered on case by case basis		NOT ACCEPTED BY SP	NOT ACCEPTED BY SP
702			Derwent	Uniclamp	DN125 and DN180	Only for where E-F saddles are not practical										
703	Under pressure Tapping Valve for PE - mechanical	310 4.1 - DN100 to DN300 4.2 - Without Electrical Isolation 4.3 - Female Rp thread to AS ISO 7.1	Viega	Geopress K	DN 63 - DN180	Only for where E-F saddles are not practical	Use is subject to acceptance by SP	Considered on a case by case basis	Considered on case by case basis							
704	Tapping saddle for PE - electrofusion	329 329.2.(a) - EN Standards accepted 4.1 - Pipe DN63 and larger (see WSA PS 207) - Off-take ID 20 mm minimum 4.2 - PN16 4.3 - Combined Saddle and Outlet off-take with integral cutter/shut off 4.4 - Without electrical Isolation	Plasson		DN63, 90, 125 & 180	Comply with AS4129 PN16		Accepted where PE pipes are approved to be used.	NOT ACCEPTED BY SP	Accepted for DN63 and DN110	Flanged saddles are not accepted by SP	Flanged saddles are not accepted by SP				
705			George Fischer													
706			Friatec / Vinidex	Frialen												
707			Fusion Group / FusionPlast	Fusamatic									Up to DN355			
708			Hydroflow	Plastitalia									Up to DN315			
709			Advanced Piping Systems / Plastitalia S.p.A	PLAS	Up to DN 315	Use is subject to acceptance by SP		Use is subject to acceptance by SP		Use is subject to acceptance by SP						
710	Tapping saddle for PE - Electrofusion - High Stress Crack Resistant (HSCR)	329 329.2.(a) - EN Standards accepted 4.1 - Pipe DN63 and larger (see WSA PS 207) - Off-take ID 20 mm minimum 4.2 - PN16 4.3 - Combined Saddle and Outlet off-take with integral cutter/shut off 4.4 - Without electrical Isolation	Agru	Agruline	Up to DN250	Comply with AS4129 PN16	Accepted where PE pipes are approved to be used	NOT ACCEPTED BY SP	Use is subject to acceptance by SP		Use is subject to acceptance by SP					
711	Ferrules - TPFNR Bonnet Ferrule Cocks	No WSA PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS 3688. 2 - PN16 with ability for under pressure tapping 3 - Male R thread to AS ISO 7.1 4 - Outlet fitting PE to WSA PS 207 or Copper to WSA PS 214 5 - DN50 to include 90 degree bend with union connection to AS3688 at outlet	Gatic / Milne			Dezincification resistant material and comply with AS/NZS 3688					SP USE ONLY					
712			Elster													
713			RMC													
714			Strongcast	TPFNR Tapping Valve	DN20											
715			Wenac													
						Use is subject to acceptance by SP		Use is subject to acceptance by SP		Use is subject to acceptance by SP						
						Acceptance yet to be determined	Considered on case by case basis	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined						

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	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater		
1	Ball valves - Water Service	274 4.1 - PN16 minimum 4.2 - Plastic not permitted, Body and Handle to be DR copper alloy or stainless steel 4.3 - By accepted product 4.4 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 or PE Compression 4.5 - 90 Degree closure with minimum 50 mm handle (from handle tip to shaft spline centre). 4.6 - Water Supply Property Service	All Valve	Airaga	DN20 & DN25	Dezincification resistant material and comply with AS/NZS 3688	Both MF thread and PE compression joints are accepted	F/F Ball valves with BSP thread only accepted Accepted for DN20 and DN25 at meter end of services. Ball valves must be lockable in both on and off position.	Use is subject to acceptance by SP	Accepted for DN20 & DN25	NOT ACCEPTED BY SP	Ball valves must be capable of being locked by the customer with their own padlock.	
716			Elson	Elson			Use is subject to acceptance by SP		Use is subject to acceptance by SP				
717			Gatic / Milne				M/F thread joints only accepted						
718			Elster				Both M/F thread and PE compression joints are accepted						
719			RMC				Both M/F thread and PE compression joints are accepted						
720			Zetco TOF				M/F thread joints only accepted						
721			Strongcast	Strongcast			Both M/F thread and PE compression joints are accepted						
722			Austworld	LOGI VALVE			M/F thread joints only accepted						
723			Galvin Engineering	Galvin Engineering			Use is subject to acceptance by SP						
724			Flocontrol	Arita			Acceptance yet to be determined						
725	Austworld	LOGI VALVE	M/F thread joints only accepted										
726	Union stopcock	No WSA PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS 3688. 2 - PN 16 3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4 - Watermark acceptance	Gatic / Milne		25 mm Dezincification resistant material and comply with AS/NZS 3688	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP					
727			Elster										
728			RMC										
729	Slip Coupling	No WSA PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3565.1, AS 3718 and AS 3688. 2 - PN 16 3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4 - Watermark acceptance 5 - Coupling to have 5mm to 20mm movement with locking nut	Elster		DN20 and DN25	Dezincification resistant material and comply with AS/NZS 3688. Shall have a locking nut and a metallic stopper to prevent moving apart or kinking between the moving parts	DN25 only is accepted	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	
730			RMC										
731			Austworld										
732	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			Push fitting not accepted by SP		
733			Georg Fischer										
734			Friatec / Vinidex										
735			Viega	Geopress K								Up to DN63	
736			Philmac	Transition UTC								DN20	
737	PE mechanical compression fittings for Small Diameter Water Service pipes	208 or 247 DN25 to DN63 2(a) - AS/NZS4129, EN1254 or equivalent acceptable Certification 4.1 - PN16 minimum 4.2 - Mechanical Polyethylene, Polypropylene or Copper Alloy both with approved Plastic grippers/olives/thimbles 4.3.1 - Transition - PE to Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4.3.2 - Coupling - PE to PE 4.4 - Flange not used 4.5 - SBR & EPDM	George Fischer		DN25 to DN63	PE to PE or PE to BSP. Push fit type is not accepted. Metal male fittings connecting to plastic female fittings is not accepted.	Use is subject to acceptance by SP	Preferred water meter tail/nut as a separate item and not integrated into a fitting	Considered on case by case basis	PE pipe stand use is considered on case by case basis	PE pipe stands not accepted by SP	Talbot fittings not accepted. Push type fittings only accepted with the approval of Unitywater.	
738			Philmac / Philmac & Vinidex										
739			Plasson										
740			Elster	TITA									DN25
741			Zetco TOF										DN25-DN63
742			Talbot										
743			Alprene										
744			Hydroflow / SAB S.p.A	SAB Black Nut Blueseal									DN25 to DN63
745			Iplex										
746			Viadux										
747	NUPIGECO	Eiopress											
748	Austworld	LOGI CIVIL	DN25 & DN 32										
749	Viega	Geopress K	DN25 - DN63										
750	Strongcast	Strongcast	DN25 & DN32										
751	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	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	
752			Elster / Honeywell	V200									
753			Itron	TD8									
754			RMC	WM273MRP multijet									
755			RMC	WM281MRP multijet									
756			GVT	TPWM									
757			Xylem	Sensus model 620									
758			Xylem	Sensus iperl									
759			Itron	Intelis									
760													

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	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
761	Meters - 25 mm (direct and sub-metering applications)	No WSA PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer and integral Dual Check Valves 4 - Std Tail Nut with gasket 5 - Colour per SEQ-SP requirements	Elster / Honeywell	V100 (PSM-T) (WM252PD)		Purple body for non-drinking water	Horizontal and Vertical orientation	NOT ACCEPTED BY SP		Only accepted for above ground installation	NOT ACCEPTED BY SP	
762			Elster / Honeywell	V200		Accuracy Class 2	Use is subject to acceptance by SP					
763			Itron	TD8		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Horizontal and Vertical orientation		Use is subject to acceptance by SP		NOT ACCEPTED BY SP	NOT ACCEPTED BY SP
764			RMC	WM271MRP multijet			Horizontal orientation only	Not permitted to be used for Hard Wired AMR systems utilising Reed Switches. Not to be used for sub-meters.				
765			Xylem	Sensus iperl			Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
766			Itron	Intelis			Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
767	Meters - 32 mm (direct and sub-metering applications)	No WSA PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer 4 - Std Thread for attachment of a AS3565.1 Clause 2.6 (DR) Copper Alloy Oval Flange with two Bolts 5 - Colour and Check Valve requirements as per SEQ-SP requirements	Elster / Honeywell	V100 (PSM-T)		Purple body for non-drinking water		NOT ACCEPTED BY SP			NOT ACCEPTED BY SP	
768			Elster / Honeywell	V200		Accuracy Class 2	Shall be supplied with integral reverse flow restrictor	Use is subject to acceptance by SP		Testable backflow prevention device required		
769			Itron	TD8		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Considered on case by case basis			NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	
770			RMC	MRP			Shall be supplied with integral reverse flow restrictor				NOT ACCEPTED BY SP	NOT ACCEPTED BY SP
771			Xylem	Sensus iperl			Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
772			Itron	Intelis			Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
773	Meters - 40 mm (direct and sub-metering applications)	No WSA PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer 4 - Std Thread for attachment of a AS3565.1 Clause 2.6 (DR) Copper Alloy Oval Flange with two Bolts 5 - Colour and Check Valve requirements as per SEQ-SP requirements	Elster / Honeywell	V100 (PSM-T)		Purple body for non-drinking water	Shall be supplied with integral reverse flow restrictor	NOT ACCEPTED BY SP			Testable backflow prevention device required	
774			Elster / Honeywell	V200		Accuracy Class 2	Use is subject to acceptance by SP	Shall be supplied with integral reverse flow restrictor	Use is subject to acceptance by SP		NOT ACCEPTED BY SP	
775			Itron	Flostar M		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Shall be supplied with integral reverse flow restrictor	NOT ACCEPTED BY SP				
776			RMC	WM400 / V100 (PSM-T)			Horizontal orientation only	Shall be supplied with integral reverse flow restrictor			Use is subject to acceptance by SP	
777			Xylem	Sensus iperl			Horizontal and Vertical orientation	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
778			Itron	Intelis			Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
779	Meters - 50 mm and larger (direct and sub-metering applications)	No WSA PS 1 - AS 3565.1 Certified 2 - Std integral Round Flange as per AS3565.1 Clause 2.5 to AS4087 Figure B5 with four Bolts 3 - Colour and Check Valve requirements as per SEQ-SP requirements	Elster / Honeywell	H4000 Woltmann			Horizontal and Vertical orientation	Shall be capable of providing pulse output				
780			Elster / Honeywell	H5000			Use is subject to acceptance by SP	Considered on case by case basis		NOT ACCEPTED BY SP		
781			Arad / RMC	Woltman Silver Turbo		Purple body for non-drinking water	Horizontal orientation only	Shall be capable of providing pulse output				
782			Itron	Flostar M		Accuracy Class 2	Up to DN150		Use is subject to acceptance by SP		Above ground installation with external top accessible (basket type) inline strainers	
783			Itron	Woltex		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy		Considered on case by case basis			NOT ACCEPTED BY SP	
784			Sensus	Meistream							Only accept Meistream Plus meter installed above ground with external top accessible (basket type) inline strainers	
785	Inline Strainer	No WSA PS	Elster	Kent H4010 Strainer	Up to DN150							
786			RMC			PN16			Use is subject to acceptance by SP			
787			Hydromet			FI-FI					Only Flat-top accepted	
788			Virginia Metals			Top entry basket Type		Use is subject to acceptance by SP	Considered on case by case basis			
789	Y Strainer	No WSA PS	Emerson	VALVCHEQ	DN65 - DN300					Use is subject to acceptance by SP		
790			AVFI	AS105F Cast Iron Y Strainer	DN50 - DN300	PN16	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP		Use is subject to acceptance by SP Ductile Iron is preferred	
791			Austworld	DR W/Mark	DN40 to DN50	Fusion bonded epoxy coated ductile iron		Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
792	Flowmeters	No WSA PS 1 - Flange to AS4087 Figure 5 2 - PN16	Arad Ultrasonica / RMC	Octave			R=500. SS body only for DN150 and smaller sizes. Horizontal and Vertical orientation.		Use is subject to acceptance by SP	Approved for fire system metering only. Combined Fire/Domestic water applications accepted for townhouse style CTS schemes. Only Stainless Steel bodied meters accepted.	Use is subject to acceptance by SP	
793			Siemens Electromagnetic	Siemens Mag 8000 Advanced		Purple body for non-drinking water.	R=400. DN100 & DN150 - Horizontal and Vertical orientation. DN200 and larger - Horizontal orientation only.	NOT ACCEPTED BY SP		Use is subject to acceptance by SP	Use is subject to acceptance by SP	
794			Siemens Ultrasonic	Siemens		Accuracy Class 1 or Class 2.					NOT ACCEPTED BY SP	Use is subject to acceptance by SP
795			E & H Electromagnetic	E & H Promag W400		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy				Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP
796			E & H Ultrasonic	E & H						Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP
797			Emerson	Emerson						Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP
798			ABB	WaterMaster AquaMaster							NOT ACCEPTED BY SP	
799	Automatic Meter Reading (AMR) Systems (sub-metering applications)	No WSA PS Meter reading dials shall have between 0 kL and 10 kL of consumption showing at the time of meter supply	Enware	Enware			Hard-wired systems only. Only Elster Reed Switches to be used. One DER (digital electronic read outs) panel per building. Min 12 months combined products & installation warranty			NOT ACCEPTED BY SP		
800			Epitomly	Epitomly							NOT ACCEPTED BY SP	
801			Utility Technology	Utility Technology						Refer to Logan Water Sub-metering for Multi-Unit Properties Guidelines		
802			Halytech	Spider		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy		NOT ACCEPTED BY SP			NOT ACCEPTED BY SP	
803			Ausmeter	Ausmeter							NOT ACCEPTED BY SP	NOT ACCEPTED BY SP
804			Itron	Everblu						Use is subject to acceptance by SP		
805	SUMS	Vivid Multi Logger					Use is subject to acceptance by SP					
806	Meter boxes - 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 Lid not permitted.			NOT ACCEPTED BY SP		
807			Everhard Industries		492L * 271W * 316D	Blue, Black or Green meter box lids	DN40 long boxes for all new and/or retrofitting are the Viscount (Linpac) P7 pit collars with a "METER BOX" permanent label on an aluminium lid or approved equivalent.		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
808			Draper		440L * 275W * 280D		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					
809			Strongcast		427L * 267W * 316D							
810			All Valve Industries	AVMB	445L * 288W * 320D				Use is subject to acceptance by SP			Use is subject to acceptance by SP

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811	Meter boxes – Class C	No WSA PS 1 - Lid in Box at Class C to AS 3996 2 - Lid shall have a slip resistant pattern that is certified to AS/NZS4586 for Table 2 (Class W) and Table 5 (Classification R11). 3 - Lids shall snap-lock into the box and shall include a metal device for Location and a separate 2 mm Galvanised Chain or 2 mm SS304 wire rope fixed to the lid and box.	Strongcast	SCCOLMED/SCLIDMED	413L * 253W* 316 D		Use is subject to acceptance by SP		Blue lid not permitted Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP							
812	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								
813			Watts	SDCV	DN80 to DN200		Acceptance yet to be determined			Acceptance yet to be determined	Acceptance yet to be determined	Acceptance on case by case basis						
814	Double check valve (DCV), Double check detector assembly (DCCA)	No WSA PS 1 - Certified to AS/NZS 2845	Emerson	VALVCHEQ	DN40, 50, 100 & 150		Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Considered on case by case basis	Use is subject to acceptance by SP								
815			Bernad	Cla-Val														
816			Hydroflow Distributors	Watts								Use is subject to acceptance by SP						
817	Pre-assembled dual meter boxes	No WSA PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Elster		DN20	Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy All components shall be approved fittings No Slip couplings	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							
818			RMC	KIT235 WMKIT235					Use is subject to acceptance by SP									
819	Pre-assembled single meter boxes	No WSA PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Strongcast	SCMBA20	DN20	Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy. All components shall be approved fittings. No slip couplings.	Accepted assemblies are: GCSCMB-2PE/TD8 – with meter, brass PE ends, standard supply. SCMB-2PE – without meter, brass PE ends, standard supply. GCSCMB-2BSP/TD8 – with meter, thread ends, supply on request only. SCMB-2BSP – without meter, thread ends, supplied on request only	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	NOT ACCEPTED BY SP	V200 meter only. No slip coupling	Use is subject to acceptance by SP						
820			Elster										Accepted assemblies are: 46491-25 – with meter, brass PE ends, standard supply. 46491-26 – without meter, brass PE ends, standard supply. 46491-22 – with or without meter, thread ends, supply on request only					
821			RMC	KIT236 WMKIT236									Accepted assemblies are: KIT238 – without meter, brass PE ends, standard supply. WMKIT238 – with meter, brass PE ends, standard supply. KIT237 – without meter, thread ends, supply on request only. WMKIT237 – with meter, thread ends, supply on request only					
822			All Valve Industries	AVMB-2BSP/TD8 AVMB-2PE/TD8									Accepted assemblies are: AVMB-2PE – with/without meter, brass PE ends, standard supply. AVMB-2BSP – with/without meter, thread ends, supply on request only.	Accepted without meter for submetering application only. A blank perforated bridging piece in place of the water meter. Not accepted for residential subdivision.				
823			Strongcast	SCMB-2BSP									DN25	Use is subject to acceptance by SP	Acceptance of flat faced nuts yet to be determined.			
824			Strongcast	SCMB18SP32									DN32					
825	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	NOT ACCEPTED BY SP	Only accepted with no slip coupling	Slip Coupling not accepted						
826			All Valve	SMA20M					Use is subject to acceptance by SP									
827			Strongcast	SCMLIM20					Use is subject to acceptance by SP									
828			Austworld	SMK05					Accepted with the use of approved slip couplings									
829				SMK with Telescopic slip coupling														
830				KIT227					Use is subject to acceptance by SP		Considered on case by case basis							
831			RMC	KIT227Q					Accepted with the use of approved slip couplings		NOT ACCEPTED BY SP		Use is subject to acceptance by SP	Only accepted with no slip coupling	Slip Coupling not accepted			
832			Elster	46492-00					DN25		Use is subject to acceptance by SP		NOT ACCEPTED BY SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP
833			Austworld	SMK06														
834				SMK07 with Telescopic slip coupling														
835	Strongcast	SCMLIM25Q	DN32	Use is subject to acceptance by SP	NOT ACCEPTED BY SP													
836	Strongcast	SCMLIM32Q																

WATER SERVICES

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	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
1											
837	Dual Check valves for Meter assemblies DN40 and Larger	No WSA PS 1 - Certified to AS/NZS 2845.1 2 - Non-Testable 3 - PN16 and Flanged to AS4087 Figure B5 4 - Ductile Iron body with AS4158 coating and lining or SS316 body or SS304 body if SS316 unavailable	Emerson	VALVCHEQ		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Alternatively figure DC03 double check valves are acceptable	NOT ACCEPTED BY SP	Considered on case by case basis	Use is subject to acceptance by SP	
838			Hydroflow Distributors	Watts			Use is subject to acceptance by SP			Use is subject to acceptance by SP	
839			LWG Zum	Model 375							
840	Reduced pressure zone device (RPZD), Reduced pressure detector assembly (RPDA)	No WSA PS 1 - Certified to AS/NZS 2845	RMC							Any brand with ISO Type 5 product certification to AS2845 is accepted	UW prefers RP03 RPZ
841			Emerson / ValvCheQ	RP03							
842			Hydroflow Distributors	Watts			Use is subject to acceptance by SP		Use is subject to acceptance by SP		Use is subject to acceptance by SP
843			RMC								
844	Pressure Limiting Valve for Water Services	No WSA PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS 3688. 2 - PN 16 3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4 - Watermark acceptance 5 - Set point 50 m	NEFA		DN15 – DN50	Stainless Steel seat. Not buried.	Not used - Private Plumbing facility	Not used - Private Plumbing Facility	Not used - Private Plumbing Facility	Not used - Private Plumbing facility	
845			Hydroflow Distributors	Watts							Use is subject to acceptance by SP
846	Constant flow control device	No WSA PS 1 - PN16 minimum 2 - Watermark certification 3 - DR Brass Body material 4 - Screwed BSP fitting type- 5 - Flow rate as agreed by SP 6 - 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

A	B	C	D	E	F	G	H	I	J	K	L
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
Category: WATER SUPPLY MISCELLANEOUS ITEMS											
847	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								
848			Tapex								
849			LWG Zurn								
850			Rain Harvesting	421			Use is subject to acceptance by SP				
851			Wenac							Use is subject to acceptance by SP	
852											
853	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					
854	Loose PE sleeving to DI pipe	320	Viadux			Mandatory sleeving to all DI pipe unless DI pipe manufacturer supplier can guarantee it is not needed following comprehensive soil testing and risk assessment. Colours are Blue for Drinking Water and Purple for Non Drinking Water to POP203					
855			Crevet	BLUEBOSS blue							
856	PVC - M conduits	209 4.1 - PN12 minimum 4.2 - Water Service Conduit 4.3 - Series 1 SCJ 4.4 - White for Water Conduit 4.5 - SCJ only	Iplex			Minimum PN12 Series 1	CoGC also accepts uPVC series 1 PN12 as per SEQ-WAT-1106-1	LCC also accepts 100 dia uPVC PN9 Series 1			UW requires uPVC PN9 series 1 with solvent weld joint- Refer drawing SEQ-WAT-1108-1.
857			Vinidex	Hydro S1							
858			Viadux								
859			Pipemakers								
860	Embedment material - crushed rock	351 4.1 - Single sized. 4.2 - Nominal 5 or 7 mm									
861	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
862	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		
863	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 - Slumps as required for placement				Normal class					
864	Security fencing	No WSA PS				AS1725.1 Chain Link Fabric Fencing-powder coated black	Fence details generally to CoGC Standard Drawing 05-014	Refer to SEQ-SP for requirements	Fence details generally to CoGC Standard Drawing 05-014	Refer to SEQ-SP for requirements	In accordance with Unitywater's specification Pr9903 - Specification for Building and Structural Works, Section 5.15 Security Fencing.
865			Bluedog Fencing	Securapop		Minimum panel height 2.1m; Powder coated black to AS4506	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
866			Oxworks	Hercules				Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined
867	Casing Spacers	324 4.1 - Carrier pipes OD from 100mm to 1668mm 4.2 - As per design 4.3 - Minimum ID as per Standard Drawings 4.4 - Annular space shall be grouted unless directed otherwise by SP 4.5 - Min space between carrier pipes and encasing pipes 50mm				Runner height of 38, 65, 90 and 125 mm For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes					
868					kwik-ZIP	Runner height of 30, 50, 75 and 100mm 110mm OD to 355mm OD (un-grouted annulus). May be used on carrier pipe diameters greater than 355mm OD where the annulus will be grouted.	For SCL, DI, PE, PVC and GRP carrier pipes	Use is subject to acceptance of SP	Considered on case by case basis	Use is subject to acceptance of SP	Use is subject to acceptance of SP
869						Runner heights of 43mm, 58mm, 63mm, 103mm, and 153mm, suitable for carrier pipes with outside diameters from 300mm to 3000mm.	For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes	Acceptance yet to be determined		Acceptance yet to be determined	Acceptance yet to be determined
870	Plastic marker post	1- Comply with Main Roads specification MRS11.14	Park International		1350 mm Long x 100 mm Wide x 4 mm Thick	As per SEQ-WAT-1300-2					
871	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
872	Camlock	No WSA PS				S/Steel 316					Maximum DN100

WATER SUPPLY MISCELLANEOUS ITEMS

A	B	C	D	E	F	G	H	I	J	K	L	
	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
1	WATER SUPPLY MISCELLANEOUS ITEMS	Valve pit access cover and frame	McBerns (Aluminium)			Refer Standard Drawings SEQ-WAT-1307-3, SEQ-WAT-1308-1 and SEQ-WAT-1310-4	Use is subject to acceptance by SP	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
873			Gatic									
874			Civilmart									
875			Webforge									
876			Hygrade									
877			EJ									
878			Durham									
879			Ducast									
880			Mass Products (Aluminium)									
881			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							
882	EJ											
883	Terra Firma											
884	ACO SAKU											
885												
886	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)	
887	Category: EMERGENCY STORAGE CHAMBERS											
888	EMERGENCY STORAGE CHAMBERS	Emergency Storage Chamber	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	
889			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	
890			Humes	Plastic Detention System 'Plastream'	1.5 m to 2.25 m dia (10kl to 250kl)	PE spirally wound steel-reinforced pipe As per SEQ-SPS-1402-1		Considered on case by case basis				NOT ACCEPTED BY SP
891			Rocla				Use is subject to acceptance by SP			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use Accepted with condition of 30 Year Warranty & Providing access opening of larger size about 1200 mm opening
892			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						
893			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		
894			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
895	Polynex	Polynex	From 600mm to 3000mm in diameter	Double walled HDPE As per SEQ-SPS-1402-1	Use is subject to acceptance by SP			Use is subject to acceptance by SP		Use Accepted - Minimum 20 year warranty		