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1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
2	Notes: WSAA Product Specifications are available at https://www.wsaa.asn.au/shop/category/11 . Section 4 of the WSAA Product Specifications is for "Agency or Project Specific Requirements". The SEQ requirements are specified below. Manufacturer/Supplier Products may be sourced from alternative Suppliers than those listed provided that the products are manufactured by a Manufacturer whose name, and the products' trade name, appear on the list. Size Range Size ranges need to be read in conjunction with the relevant clauses of the SEQ versions of the WSAA Codes (e.g. Water Supply Code Clause 3.1.1; Sewerage Code Clause 10.6; Pressure Sewerage Code Clause 4.5.3.1; etc.) Blank Cells in the five columns under the service provider's names cells that are blank indicate that the product listed on that row are acceptable to the service provider. 'Use is subject to acceptance by SP' Contact the service provider to determine if the use of this product is acceptable in the proposed circumstance. 'SP USE ONLY' These products are approved for use by SEQ-SPs or their contractors only for maintenance/retrofitting purposes. 'Flange' All flanges used for pressure systems shall be PN16 complying with AS4087 Fig B5 unless otherwise specified.											
3	Category: SEWERAGE PIPES AND FITTINGS - NON PRESSURE											
4	PVC-U pipe and fittings - DWV system	230 4.1 - Plain Wall 4.2 - Elastomeric Seal 4.3 - Stiffness as per 230.2.(c) or as required by SP 4.4 - SBR & EPDM 4.5 - Heavy Duty fittings accepted	Iplex	DWV PIPE	DN100 150 225 300 375	Plain wall only accepted	DN100 at SN10 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum	DN100 at SN10 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum	DN100 at SN10 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum	Use is subject to acceptance by SP	DN100 at SN10, DN150 and larger at SN8 and Fittings at SN8 minimum	
5			Vinindex	DWV SEWER								
6			Viadux	D-FLO								
7			Micron Pipelines	Micron Pipelines	DN100 - DN300			Use is subject to acceptance by SP				
8			Pipemakers	Pipemakers								
9	PVC-U Pressure pipe Sewer using Standard DWV Junctions	211 4.1 - PN12 4.2 - Deep Sewers or Minimum Cover 4.3 - Standard Packaging & Delivery 4.4 - Series 1 4.5 - SBR & EPDM	Iplex		DN150 225 300	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Mandatory for sewers deeper than 3 metres and for sewers with minimum cover All details to be confirmed with SP		
10			Vinindex									
11			Viadux									
12	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.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
13			Jindal SAW/Iplex		DN225 to DN750		NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	PN20 NOT ACCEPTED BY SP, PN35 Use is subject to acceptance by SP	
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	Viadux	DIMAX/TYTON XCEED Z+	DN100 - 750	400g/m2 Zn/Al+100µm epoxy or min 900 micron Polyurethane external coating.			Use is subject to acceptance by SP	Accepted in applications where DI pipe is specified e.g. building over sewer applications	Use is subject to acceptance by SP	
15			Jindal SAW/Iplex	Jindal SAW	DN100 - 750	Min 1300 micron Polyurethane internal lining		Use is subject to acceptance by SP		Use is subject to acceptance by SP		
16			Viadux	DIMAX/TYTONXTREME Z+	DN100 - 750	CAC cement lining	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		Accepted in applications where DI pipe is specified e.g. building over sewer applications	NOT ACCEPTED BY SP	
17			Jindal SAW/Iplex	Ironitle	DN100 - 750							
18			Saint-Gobain	Integral Zinalium	DN100 – 750							
19			Vinindex	ZAP-HAC	DN100 – 750			Use is subject to acceptance by SP			Use is subject to acceptance by SP	
20	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	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
21			Pipe Lining and Coating	Fusionkote	OD168 - 3624							
22	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			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
23			Pipe Lining and Coating	Fusionkote	OD168 – 3624							
24	Polypropylene (PP) pipe	240 4.1 - As per standards 4.2 - SN10 4.3 - SBR & EPDM 4.4 - As per standards	Vinindex	SewerPRO	DN150 - 900	Accepted DN450 or larger				NOT ACCEPTED BY SP	SP USE ONLY	
25			Iplex	SewerMAX	DN225 - 600							
26			Enviropipes	EnviroPipe	DN150 - 900			Use is subject to acceptance by SP				Use is subject to acceptance by SP

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27	PE pipe - NuSewers	242 4.1 - No alternative dimensions accepted 4.2 - PN8 SDR21 4.3 - Elastomeric seals not permitted 4.4 - External colour light grey solid or striped see POP203 4.5 - Internal colour white or light colour 4.6 - Pipe lengths for DN160 and larger with coils accepted for DN110 4.7 - PE100 only	Iplex	POLIplex	DN110 160 250 315 400 500 630 800 1000 1200	For pipe bursting / cracking installations, minimum PE100 PN10 (SDR 17) to be used and installed with tracer wire, unless specified otherwise. Pipe wall thickness to be designed for installation forces. Butt welded joints are mandatory for pipe bursting / cracking installations.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	PE is mandatory pipe for reticulation sewers, PE is preferred pipe for larger sewers. Where > PN8 is required, dark internal pipe colour may be used with prior SP approval							
28			Vinidex	Sewertech													
29			David Moss Corporation	DAMOS Hi-Vis													
30			Viadux														
31			Poly Pipe	SewerFlex	DN110 – DN315												
32			Enviropipes	Enviropressure													
33			ACP	ACP													
34					Pipemakers							Pipemakers	DN110 – DN800				
35			Clover	Clover / Rohr													
36			Acu-Tech	Acu-Tech													
37	PE fittings - Moulded	242 4.1 - No alternative dimensions accepted 4.2 - PN8 SDR21 4.3 - Elastomeric seals not permitted 4.4 - External colour light grey solid or striped with internal colour white or light colour, see POP203 4.5 - PE100 only	George Fischer / Iplex		Up to DN315	Electrofusion fitting to be long type.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Flanged tees and flanged saddles are not accepted by SP.	Flanged tees and flanged saddles are not accepted by SP.						
38			Friatec / Vinidex														
39			Plasson	Lightfit													
40			Agru	AGRU													
41				Agruline													
42				Fusion Group/FusionPlast	Fusamatic							Up to DN630					
43				NUPIGECO	Elofit							DN110 to DN630					
44				Hydroflow / Plastitalia S.p.A	PLAST							Up to DN630					
45			Advanced Piping Systems / Plastitalia S.p.A	PLAS	Up to DN630												
46			David Moss Corporation	DAMOS	Up to DN1000												
47			Fusion QLD	Flo Right	Up to DN450												
48	PE fittings - Fabricated	242 4.1 - No alternative dimensions accepted 4.2 - PN8 SDR21 4.3 - Elastomeric seals not permitted 4.4 - External colour light grey solid or striped with internal colour white or light colour, see POP203 4.5 - PE100 only 4.6 - Fittings include: sweep bends, MH connectors, tee and bends for drop pipes and sweep junctions	Vinidex		DN110 - DN315	Electrofusion fitting to be long type.  PE MH connectors shall have Hydrophilic seals both sides of puddle flange.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		Use is subject to acceptance by SP						
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	Use is subject to acceptance by SP		Use is subject to acceptance by SP May only be used as jacking pipes	May only be used as jacking pipes						
59				Steinzeug Keramo								Keramo					
60				Naylor / Rocla								Denlok					
61	DI IO bends or X Drop fitting	201 4.1 - Sp-Soc ends to serve PVC-U DWV pipe 4.2 - Refer Standard drawings 4.3 - Standard RRJ for accept PVC-U DWV pipe 4.4 - SBR & EPDM 4.5 - Thermal-bonded polymeric coated and lined	Crevet			All DI fittings to be wrapped	Only accepted where PVC MH inspection bends are not available			Use is subject to acceptance by SP	NOT ACCEPTED BY SP						
62				Viadux													
63	PVC-U heavy duty maintenance hole inspection bends	230 4.1 - Plain wall 4.2 - RRJ 4.3 - Min SN10 for DN100 and SN8 for DN150 and larger 4.4 - NBR or SBR or EPDM 4.5 - Heavy duty fittings shall be used 4.6 - Two moulded pieces welded by factory 4.7 - Fibre reinforcement is not required	Plastec	Plastec	DN100 RRJ/Sp (#19712) DN150 RRJ/Sp (#19714) DN150 Sp/Sp (#20041)	SN rating (SN8 or SN10) and letters "Heavy Duty" (Super Duty) shall be imprinted on the surface of fittings.  This fitting is to be used for maintenance hole internal drops.  DN150 Sp/Sp (#20041) is to be used for retrofitting on AC sewers only.			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP						
64	Metal-banded flexible coupling	235 4.1 - Need for adaptor bushes where difference between OD of pipe and ID of coupling greater than 16 mm 4.2 - Metal band and bolts shall be min SS316	Flex-Seal	Flex-Seal	Up to DN600	Not to be used to connect to unrestrained PE Pipe. Fitting not designed to restrain thermal expansion/ contraction forces of PE pipework.				Not to be used for PE pipes where thermal expansion / contraction of pipework is likely to result in pull-out of the coupling							
65				DEKS	DEKS shear banded coupling					DN100 to DN225		Use is subject to acceptance by SP					
66				Rehau	Awaduct Flex Connect					DN100 to DN 630		Not to be used for PE pipes where thermal expansion / contraction of pipework is likely to result in pull-out of the coupling					
67				VIP Polymers/ Jaybro Group	VIPSeal					DN100 to DN600							

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						October 2021		ACCEPTED CIVIL PRODUCTS AND MATERIALS			
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1											
68			Viadux	Gibault - Ezigib & Varigib							
69			Crevet	Gibault & Universal							
70		270		Gibault & Universal							
71		4.1 - PN16	AVK	AVK Supa-Gib Couplings	Up to DN675	Long type.					
72	DI mechanical couplings - Non End Thrust Restraint	4.2 - All pipe materials except PE				All DI fittings to be wrapped.					
73		4.3 - Long Series									
74		4.4 - Straight Soc-Soc	Viking Johnson	MaxiFit & QuickFit							
75		4.5 - Stepped coupling require SP approval	Derwent Industries		DN100 - DN300	DI must have thermal bonded polymeric coating			Use is subject to acceptance by SP		
76		4.6 - Flange end not used	DEKS	DEKS FLEXI-GIB	DN80 to DN600						
		4.7 - SBR & EPDM	Daemco	Reinoversal	Up to DN 600						
		4.8 - SS316 bolts, nuts and washers	Clover Pipelines	Clover Connect VPC	DN100 to DN600			CLOVER GIBAULT NOT ACCEPTED BY SP			
77	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. A rubber ring socket joint (RRJ) to be factory fitted to the glue in branch by Derwent to suit the SEQ Code requirements.		SP USE ONLY	Use is subject to acceptance by SP	Use is subject to acceptance by SP and not to be used on PVC-O or PE pipes	SP USE ONLY
78	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		SP USE ONLY	SP USE ONLY	Use is subject to acceptance by SP	SP USE ONLY	SP USE ONLY
79	Reinforced Concrete pipe	233 4.1 - Class 4 4.2 - Bends not permitted 4.3 - In corrosive soils coat external face with 250 micron DFT High Build Epoxy 4.4 - Lifting holes not permitted 4.5 - 2.0 mm PE sheet Factory cast-in liner with Invert overlapped but not welded 4.6 - No additional cover 4.7 - SBR & EPDM	Rocla				Use is subject to acceptance by SP			Use is subject to acceptance by SP	Use is subject to acceptance by SP
80			Humes								
81	Polycrete pipe	No WSA PS 4.1 - Class to suit design 4.2 - Bends not permitted 4.3 - Compliance with ASTM D 6783, DIN 54815-1 and DIN 54815-2 4.4 - SBR and EPDM Sewer Pipe and Jacking Pipe approved	Iplex	Meyer pipe	DN200 to 2600		Use is subject to acceptance by SP			Use is subject to acceptance by SP	Use is subject to acceptance by SP Coupling Grade 316 Stainless Steel (min.)
82			Global Pipe	Al Watani							
83	CC-GRP (centrifugally cast) pipe and Fittings - Sewer Pipe	237S 4.1 - PN1 4.2 - SN10,000 minimum 4.3 - Soc-Sp RRJ 4.4 - Standard Glass 4.5 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN400 - DN1400	Sewer Pipe	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
84	FW-GRP (filament wound) pipe and Fittings - Sewer Pipe	205S 4.1 - As per product 4.2 - PN1 4.3 - SN10,000 minimum 4.4 - Bends, T-piece, Y-piece, Saddles, Reducers, Flanges and MH Couplings 4.5 - Soc-Sp RRJ 4.6 - Standard Glass 4.7 - SBR & EPDM	Flowtite / Iplex	Flowtite	DN300 - DN3000		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
85			Global Pipe	Fiberstrong	DN300 - DN4000	Sewer Pipe	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
86			Superlit / Clover Pipelines	Superlit	DN300 - DN3000						
87	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		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 Only use GRP coupling for acid sulphate soil and saline environment
88			Empire Infrastructure	BOSSPIPE	DN300 - DN2000	Jacking pipes					
89			Superlit / Clover Pipelines	Superlit	DN400 - DN1400						
90	FW-GRP (filament wound) pipe and Fittings - Jacking Pipe	206J 4.1 - As per product 4.2 - Pressure Class by design 4.3 - Stiffness Class by design 4.4 - Jacking Load by design 4.5 - 316 Stainless Steel (min) or GRP couplings 4.6 - SBR & EPDM 4.7 - Pipe Lengths to manufacturers requirements 4.8 - Standard Glass	Flowtite / Iplex	Flowtite	DN300 - DN3000	Jacking pipes	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP Only use GRP coupling for acid sulphate soil and saline environment
91			Superlit / Clover Pipelines	Superlit	DN300 - DN3000						
92	Non-return valves	280 4.1 - Solvent Cement 4.2 - SN10 4.3 - No alternate elastomeric materials for joint seals accepted	Iplex	Flap valve	DN50 to DN300		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
93				Reflux valve fabricated	DN100						
94			Vinindex	Flap valve	DN50 to DN100						
95		No WSA PS	Hygrade Water	WaStop Non-return valves	DN75 to DN1800						
96			Fluid Control	Red valve - Tideflex check valves	DN50 to DN2400	All DI fittings to be wrapped	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
97			HMA Flow & Industrial - Valveco	Proflex Rubber Check Valve	DN 25 to DN 2500						
98	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
99			Challenger	Challenger							
100			AVFI	AVFI							
101			HMA Valveco	HMA Valveco						Use is subject to acceptance by SP	
102			AVK (Note: This is the only vendor complying with 316 SS throughout)	Orbinox							
103	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.	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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104	Knife gate valve/penstock - Fabricated Stainless Steel	<b>No WSAA PS</b> 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	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Fabricated knife gate valve / penstock to comply with requirements of Unitywater Pr9693 – <i>Specification for Mechanical Installation</i>
105			Hygrade Water	Atec GmbH	DN100 to DN2800						Use is subject to acceptance by SP
106	Knife gate valve - Ductile iron body	<b>266</b> 4.1 - PN10 4.2 - Wafer or Lugged 4.3 - Clockwise closing, rising spindle	Emerson	Keystone	Up to DN600	Body and Gland Follower ductile iron with fusion bonded polymeric coating external to 300 µm, internal to 350 µm (min.) or high-build two-pack epoxy to 275 µm (min.). Gate stainless steel Grade 316. Spindle stainless steel Grade 316. Yoke / Pillar / Bridge carbon steel with fusion bonded polymeric coating to 300 µm or high-build two-pack epoxy to 275 µm (min.). Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel Grade 316. All DI fittings to be wrapped	Use is subject to acceptance by SP		Use is subject to acceptance by SP	Use is subject to acceptance by SP	
107			Challenger	Challenger							
108			AVFI	AVFI							
109			AVK	CYL							

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110	Category: SEWERAGE PIPES AND FITTINGS - PRESSURE															
111	PVC-M pipe	209 4.1 - PN16 4.2 - Sewer Rising main 4.3 - Series 2 only 4.4 - Cream refer POP203 4.5 - SBR & EPDM	Iplex	RHINO	DN100 150 200 225 250 300 & 375			NOT ACCEPTED BY SP		Use is subject to acceptance by SP	NOT ACCEPTED BY SP					
112			Vinidex	Hydro												
113			Viadux	Plaspipe												
114			Micron Pipelines	Micron Pipelines	DN100 - DN300											
115			Pipemakers	Pipemakers Enviromain												
116	PVC-O pipe	210 4.1 - PN16 4.2 - MRS400 or MRS450 4.3 - Sewer Rising main 4.4 - Series 2 only, Cream refer POP203 4.5 - SBR & EPDM	Iplex	ApolloBLUE	DN100 150 200 225 250 300 & 375	NOT ACCEPTED BY SP		Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP						
117			Vinidex	Supermain												
118			Micron Pipelines	Micron Pipelines	DN100 - DN375											
119			Pipemakers	Alphamain	DN100 to DN150											
120				TOM®	up to DN375											
121	DI pipe	200 and WSAA TN6 4.1 - All Pressure Classes - see Column F 4.2 - Seal Coat not required for Sewerage 4.3 - Internal Linings - see Columns F-K 4.4 - All pipes to be polyurethane or Zn-Al alloy and epoxy coated. All fittings to be Fusion Bonded Polymeric Coated 4.5 - Restraint Joint Seals by approval 4.6 - SBR and EPDM 4.7 - PE sleeving is required on ALL DI pipes unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	Jindal SAW / Iplex		DN250 to DN750 (not 225)	PN20	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	PN20 NOT ACCEPTED BY SP					
122			Vinidex	ZAP-GP		PN20, CAC lining for corrosive flows										
123			Clover Pipelines	Clover/Xinxing												
124			Vinidex	ZAP-HAC	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.			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.							
125			Clover Pipelines	Clover/Xinxing												
126			Vinidex	ZAP-GP												
127			Jindal SAW / Iplex	Ironitle (XINAL400+ coating)												
128			Jindal SAW / Iplex	Ironitle (XINAL400+ coating)		PN35 and Flange Class, CAC or HAC lining for corrosive flows 400g/m2 Zn/Al+100µm epoxy or min 900 micron Polyurethane external coating.			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.							
129			Vinidex	ZAP-HAC												
130			Saint-Gobain	DIMAX/TYTONXTREME Z+		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 or intermittently. Alternative non-corrosive lining or pipe and fittings required.							
131			Viadux	DIMAX/TYTONXTREME Z+	DN100 – DN750 (not 225)											
132			Clover Pipelines	Clover/Xinxing	Use is subject to acceptance by SP											
133			Clover Pipelines	Clover/Samsun												
134			Reece/Viadux	DIMAX/TYTON XCEED Z+	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		Use is Subject to acceptance by SP		
135			Jindal SAW / Iplex	Jindal SAW												
136	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.	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					
137	DI fittings - bends, tapers, tees/branches, connectors, risers & caps/blank ends	201 4.1 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.2 - Standard and PN16 fittings 4.3 - Restraint Joint Seals by approval 4.4 - SBR & EPDM	Viadux	Tyton Joint & Sureflow	Up to DN750 (not 225)	Thermal bonded polymeric coating is the standard material in WSA PS 201 and WSA PS212.  All DI fittings to be wrapped					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.					
138			Crevet / Iplex	Crevet	Up to DN750 (not 225)											
139			Vinidex	Superlink	Up to DN750 (not 225)											
140			Derwent		Up to DN750 (not 225)											
141			Gillies		DN100 & DN150											
142			Himgiri Castings/Galvin Engineering / CivilPipes	Galvin	DN80 to DN300											
143			Dobbie Dico	Dobbie	DN100 to DN250											
144			Mallet	Mallet	DN80 to DN750											
145			Clover Pipelines	Clover	DN80 to DN150											
146			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					

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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						
147	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.)						
148	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	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Type R accepted only  In acid sulphate soils the clamp must be Denso wrapped.						
149			Viadux	Wang	DN100 to DN300												
150			Cascade Control	Rapid Clamps	DN40 to DN350							Only repair clamps accepted.	Only repair clamps accepted				
151			Daemco	Norma Connect	DN80 to DN300		Only Type R offtake and repair clamps accepted. Offtake clamps accepted to be used where under pressure connection is approved by SP.					Only Type R repair clamps accepted.	Type R accepted only				
152			AVK	AVK Series 748	Up to DN300								Only Type R repair Clamps accepted				
153			Derwent														
154	Flange (DI) off-take clamps for DIOD pipes	313 4.1 - Type R, Type F or Type R and Type F by SP approval 4.2 - Pipe DN by SP approval 4.3 - Off-take DN by approval 4.4 - Min. PN16	Derwent	Uniclamp	DN100 & DN150	Flanged off-take clamps approved Type R for DI, AC and CI host pipes and Type F for PVC-m, PVC-u only, to pipe manufacturers specifications.  Host pipe to be of suitable condition.	Type R and Type F accepted  Accepted to be used where under pressure connection is approved by SP		Use is subject to acceptance by SP	Only DN100 flange offtake accepted							
155	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	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						
156			Hygrade Water Australia	cQuick Encapsulation Repair collar	DN 80 - DN200			SP USE ONLY									
157			AVK	Series 208 Encapsulation Repair collar	DN 80 - DN200												
158	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	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Only accepted for use where welded joints are not practical and where under pressure connection is approved by SP							
159			Derwent	Uniclamp	DN125 and DN180												
160	Metal-banded flexible couplings - Vacuum Valve coupling use only	235 4.1 - Need for adaptor bushes where difference between OD of pipe and ID of coupling greater than 16 mm 4.2 - Metal band and bolts shall be min SS316	Flex-Seal	Flex-Seal	Up to DN600			Use is subject to acceptance by SP	Use is subject to acceptance by SP		NOT ACCEPTED BY SP						
161			DEKS	DEKS shear banded coupling	DN100 to DN225					Use is subject to acceptance by SP							
162	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.											
163			Crevet	Gibault & Universal													
164			AVK	Gibault & Universal													
165				AVK Supa-Gib Couplings													
166			Viking Johnson	MaxiFit, QuickFit	DN100 to DN300												
167			Derwent Industries														
168			DEKS	DEKS FLEXI-GIB	DN80 to DN600							Use is subject to acceptance by SP					
169			Daemco	Reinoversal	Up to DN 600												
170			Clover Pipelines	Clover Connect VPC	DN100 to DN600							CLOVER GIBAULT NOT ACCEPTED 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					
171	DI mechanical fittings - End Thrust Restraint (Gripper Type)	<b>271</b> 4.1 - PN16 4.2 - CI, DI, PE, SCL, AC 4.3 - Long Series 4.4 - Straight and Stepped and Flange Adaptor 4.5 - All DN range options 4.6 - Flange adaptors to be drilled as per AS/NZS 4087 Figure B5 4.7 - SBR & EPDM & Nitrile 4.8 - Use of pipe stiffener inserts for PE pipe as per fitting manufacturer's requirements 4.9 - All DI fittings to be wrapped with CI and DI systems 4.10 - Flange adaptors up to DN355 PE shall be full bore connection i.e. DN63 PE / DN50 FL, DN125 PE / DN100 FL, DN180 PE / DN150 FL, DN250 PE / DN200 FL, DN315 PE / DN250 FL and DN355 PE / DN300 FL	Hawle / Hygrade Water	Synoflex Restraint	50NB - 300NB	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					
172			Georg Fischer	Multijoint 3000 Plus Restraint		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.										
173			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	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
174			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.
175		<b>245 for PE</b> 4.1 - PN16 4.2 - SBR, EPDM and Nitrile 4.3 - Use of pipe stiffener inserts for PE pipe as per fitting manufacturer's requirements 4.4 - Flange adaptors up to DN355 shall be full bore connection i.e. DN63 PE / DN50 FL, DN125 PE / DN100 FL, DN180 PE / DN150 FL, DN250 PE / DN200 FL, DN315 PE / DN250 FL and DN355 PE / DN300 FL	Hawle / Hygrade Water	System 2000	DN63-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.					
176			AVK	Supa Plus Restraint	DN63 - DN315	Requires pipe stiffener inserts to be installed						The use of gripper type fittings on AC, DI and SCL pipe is subject to acceptance by SP				
177			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					
178			Daemco	Xcel Restrained Coupling and Flange Adaptor	DN63 - DN315 for Coupling & DN63 - DN315 for Flange Adaptor	Does not require pipe stiffener inserts to be installed for PN16 (SDR 11) PE100 pipe.					Use of Daemco Xcel Restrained Couplings is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations					
179			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.						Only accepted for use where welded joints are not practical				
180			DI flanged telescopic flexible fitting	<b>No WSA PS</b> 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	<b>SP USE ONLY</b>		<b>SP USE ONLY</b>	
181		Dismantling joints for Flange Pipe and Fittings	<b>284</b> 4.1 - No alternative material grades 4.2 - As per manufacturer's requirements 4.3 - Configuration: FI-FI for DJ & FI/Sp for UniFlange 4.4 - Fitting type: thrust type and non-thrust type 4.5 - Thrust Restraint by Fitting 4.6 - SBR & EPDM	Viadux			Thrust restraint type and non-thrust type are Flanged to AS4087 PN16.	Dismantling joints shall be restrained type only Use of uni-flange is subject to acceptance of SP				Uni-flange to be used within pit or aboveground locations only				
182				Viking Johnson			SS316 bolts, nuts and washers.									
183	HMA Group			Uni-Flange Adaptor	DN50-DN500	Larger sizes of UniFlange shall be assessed for available Fitting PN vs Pipeline Test Head.	<b>NOT ACCEPTED BY SP</b>						Use is subject to acceptance by SP	Use is subject to acceptance by SP		
184	Hygrade Water			Pipemate	DN80-DN900	All DI fittings to be wrapped	<b>NOT ACCEPTED BY SP</b>									
185	AVFI			AFD10 Series	DN80-DN1200		Restrained type only								Restrained type only	
186	PE pipe	<b>207</b> 4.1 - PN16 4.2 - Sewer Rising main 4.3 - Coil pipe permitted up to DN125 with Pipe lengths for larger DN 4.4 - Cream refer POP203 4.5 - PE100 only	Iplex	POLIplex	DN40 50 63 90 125 180 250 315 355 450 560 630 800	For directional drilling installations, minimum SDR 9 (PN20 PE100) unless specified otherwise and install with tracer wire.  Pipe wall thickness to be designed for installation forces.  Butt welded joints are mandatory for HDD construction where continuous pipes on coil are not available.				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)					
187			Vinidex	Sewertech												
188			David Moss Corporation	DAMOS												
189			Poly Pipe	SewerFlex												
190			Enviropipes	Enviropressure												
191			Cromford	Identipe												
192			ACP	ACP	DN40 50 63 90 125 180 250 315							Use is subject to acceptance by SP	<b>NOT ACCEPTED BY SP</b>			
193			ASA		DN40 50 63 90 125											
194			Agru		DN40 50 63 90 125 180 250 315 355 450 560 630 800							Use is subject to acceptance by SP	<b>NOT ACCEPTED BY SP</b>	<b>NOT ACCEPTED BY SP</b>	<b>NOT ACCEPTED BY SP</b>	
195			Pipemakers	Pipemakers	DN40 50 63 90 125 180 250 315 355 450 560 630 800									PE is preferred pipe material - PE shall be used unless specific site conditions dictate otherwise.	Use is subject to acceptance by SP	
196	Clover	Clover/Rohr	DN40 50 63 90 125 180 250 315 355 450 560 630													
197	Acu-Tech	Acu-Tech	DN40 – DN800	Use is subject to acceptance by SP												
198	PE pipe - High Stress Crack Resistant (HSCR) Polyethylene Pipe	<b>207, POP016</b> 4.1 - PN16 minimum 4.2 - Sewer Rising main 4.3 - Coil pipe permitted up to DN125 with Pipe lengths for larger DN 4.4 - Cream refer POP203 4.5 - HSCR PE100 only	Iplex	Millennium HSCR PE	DN40 50 63 90 125 180 250 315 355 450 560 630 800	For directional drilling and pipe bursting installations, minimum SDR 9 (PN20 HSCR PE100) unless specified otherwise and install with tracer wires.  Pipe wall thickness to be specified as normal PE100 as such "extra" strength should be provided.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Pressure Sewer /Rising main pipes shall be black with cream stripes Vacuum Sewer pipes shall be solid cream (co-extruded with the pipe)						
199			Acu-Tech	Acu-Tech		Butt welded joints are mandatory for HDD construction where continuous pipes on coil are not available.				Use is subject to acceptance by SP	Use is subject to acceptance by SP					
200	PE fittings - Moulded - High Stress Crack Resistant (HSCR) Polyethylene	<b>208</b> 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	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Accepted up to DN355						

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1																
201	PE fittings - Moulded	208 2(a) - AS/NZS4129 or EN1555 or EN12201 or EN13244 is acceptable 4.1 - PN16 4.2 - Electrofusion and butt weld 4.3 - Couplings, Reducers, End Caps, Bends, Tees, Stub Flanges 4.4 - Flanges & SS 316 backing rings to AS/NZS 4087 Fig B5 or B7 4.5 - SBR & EPDM	George Fischer			Electrofusion fitting to be long type.  Stub flange may only to be used for DN450 and larger sizes.		Use is subject to acceptance by SP	Use is subject to acceptance by SP		Flanged tees and flanged saddles are not accepted by SP	Flanged tees and flanged saddles are not accepted by SP				
202			Friatec / Vinidex	Frialen	DN63XDN32 to DN350XDN90											
203			Plasson													
204			Agru	AGRU	Up to DN630											
205			Fusion Group / FusionPlast	Fusamatic	Up to DN630					Spigot fittings only accepted	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
206			NUPIGECO	Elofit	DN20 to DN710					Use is subject to acceptance by SP						
207			Hydroflow / Plastitalia S.p.A	PLAST	Up to DN630					Use is subject to acceptance by SP						
208			Advanced Piping Systems / Plastitalia S.p.A	PLAS	Up to DN630					Use is subject to acceptance by SP						
209			Simona / Plasson	Simona	Up to DN500											
210			Mako	Mako	Up to DN630											
211			David Moss Corporation	DAMOS	Up to DN1000											
212			Fusion QLD	Flo Right	Up to DN450					Use is subject to acceptance by SP						
213	Guangdon Liansu / Crew Pipelines	Lesso	DN63 - DN800	Spigot fittings only accepted	Only butt welded spigot fittings accepted	NOT ACCEPTED BY SP										
214	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		Butt Welded Fittings  Stub flange may only to be used for DN450 and larger sizes.		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP					
215			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	
216	PE Flex Restraint Fitting (used as puddle flange)	No WSAA PS 1 -PN16 minimum	Georg Fischer	EF Flex Restraint	DN180 – DN1600	PE100 In accordance with manufacturer's requirements	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use is subject to acceptance by SP					
217			Plasson	Flex Restraint	DN180 – DN1600											
218	Full face PE flanges	208 (Moulded Fittings) 4.1 - PN16 4.2 - Electrofusion and butt weld 4.3 - Full Face Flange with SS backing ring 4.4 - Flange standard AS/NZS 4087 B5 or B7 4.5 - SBR & EPDM	Simona / Plasson	Simona		Metal insert in the flange, backing rings not required		Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP						
219			Plasson		DN80/DN100	Slotted flanges & backing rings suit both DN80 and DN100						Use of stub flanges is subject to acceptance by SP				
220			Iplex		Up to DN355	Full bore connections										
221			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	Use is subject to acceptance by SP	Use is subject to acceptance by SP			
222			Fusion Group / FusionPlast	Fusamatic	DN90 to DN 450	DN90 slotted flange is not accepted										
223			David Moss Corporation	DAMOS	Up to DN1200	Use is subject to acceptance by SP										
224			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	Use is subject to acceptance by SP
225	Mechanical Restraining Flange for PE Pipe	No WSA PS 1 - PN16 Minimum 2 - SS316 bolts, nuts and washers shall be used	Derwent Industries	Derwent Industries	DN125 & DN180		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use is subject to acceptance by SP					
226	Steel pipe	203 4.1 - MPa 1.6 minimum 4.2 - DN by Design subject to SP approval 4.3 - Seal Coat not required 4.4 - As per SP requirement 4.5 - Joint requirements by Design 4.6 - Cathodic Protection by design 4.7 - Standard pressure tests 4.8 - Fusion bonded polyethylene lining 4.9 - Zinc metal spray as per the specification 4.10 - SBR & EPDM 4.11 - Fusion bonded polyethylene coating minimum	Steel Mains	Sintapipe	DN324 - 2159	RRJ unless otherwise approved  Coating to be fusion bonded polyethylene minimum.  Lining to be fusion bonded polyethylene	Accepted OD610 or larger	Use is subject to acceptance by SP DN610 minimum size	Use is subject to acceptance by SP DN610 minimum size	Use is subject to acceptance by SP	Use is subject to acceptance by SP					
227			Pipe Lining and Coating	Fusionkote	OD168 - 3624											
228	Steel fittings – bends, tees and reducers	204 4.1 - MPa 1.6 minimum 4.2 - DN by Design subject to SP approval 4.3 - Bends, tees, reducers and other types by design to SP approval 4.4 - As per SP requirement 4.5 - Fusion bonded polyethylene coating minimum 4.6 - Joint requirements by design 4.7 - Cathodic Protection by design 4.8 - Fusion bonded polyethylene lining 4.9 - Zinc metal spray as per the specification	Steel Mains	Sintakote	OD114 - 2500			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP						
229			Pipe Lining and Coating	Fusionkote	OD168 - 3624											
230	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 Steelss	ASSDA accredited fabricators	N/A	DN100 - DN750	Min. Grade 316 Min. PN16 Flange to AS4087 Fig B5	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP					
231		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	Use is subject to acceptance by SP	Use is subject to acceptance by SP						

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1																
232	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	Use is subject to acceptance by SP						
233	Resilient seated gate valves, thermal bonded polymeric coating	260 4.1 - PN16 4.2 - FI-FI, Soc-Soc, Sp-Sp, FI-Soc, FI-Sp and FI-gripper socket end configurations accepted 4.3 - Integral By-pass on DN450 and larger (Not accepted by Unitywater and Urban Utilities) 4.4 - Gear Box on DN600 and larger (Refer Mechanical List) 4.5 - Anti-Clockwise closing 4.6 - No requirement for spindle cap colour 4.7 - Extension Spindle to WSA PS - 262 4.8 - Spindle Cap 4.9 - SBR & EPDM 4.10 - Stiffener inserts for PE pipe as per manufacturers requirements	AVK	Series 57 (light type only for DN100 & 150) Series 570 Series 55	Up to DN400  Up to DN600 DN450 to 600	Some valves may not need by-pass (check with SEQ SPs).  All DI fittings to be wrapped  All valves shall be restrained as per SEQ-WAT-1206-1.  Valves that are not able to be restrained are not accepted	DN600 and larger valves shall be DeZurik Eccentric Plug Valves				Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.					
234			Hawle	E2 E2 System 2000	DN50-200 DN50-300							Use is subject to acceptance by SP	Use is subject to acceptance by SP			
235			Hawle / Hygrade Water	E3 (FL-FL)	DN100-DN300											
236			Viadux	Series 500 Auslita II Auslita III	Up to DN600 DN100 - DN300 Up to DN 600											
237			Karon / Challenger	Karon (FL-FL light weight design) Karon (FL-FL integral bypass valves)	DN80 - DN600 DN80 - DN300 DN450 - DN600		Use of Karon / Challenger (FL-FL light weight design) is subject to acceptance by SP	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP						
238			AVFI		DN80 -DN600		DN600 and larger valves shall be DeZurik Eccentric Plug Valves			Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP				
239			Betta	BETTA	DN80 - DN600											
240			AAP Industries	Maxifo/appFLO	DN80 to DN300											
241			Derwent Industries	Derwent	DN80 - DN600											
242			DAEMCO		DN80 to DN300 for Soc-Sp DN80 to DN375 for FL											
243			Reece	DIMAX	DN80 – DN600 (FI-FI) DN100 – DN150 (Soc-Soc) DN100 – DN150 (Sp-Sp)											
244	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.											
245		Hawle	E2	Up to DN200												
246		Betta	Betta	DN100 & DN150												
247		AVK	Series 01/71	Up to DN300							All valves shall be restrained.  All DI fittings to be wrapped.					Use of gripper type RSGVs is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations
248		Hawle	E2 System 2000	DN50 - DN300												
249	Betta	BETTA	DN100 - DN300													
250	Derwent Industries	Derwent	DN100 - DN150													
251	DAEMCO		DN100 - DN150													
252	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	Use is subject to acceptance by SP							
253	283 1 - PN16 resilient seated gate valves for under pressure line stopping application for pressure sewerage	Daepoong/ CNS Engineering	S- Gate Valve	DN100 - DN250	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	Use is subject to acceptance by SP	SP USE ONLY	SP USE ONLY						
254	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	Use is subject to acceptance by SP		Use is subject to acceptance by SP					
255				Sureflow Series 2580	DN375 – DN600											

	A	B	C	D	E	F	G	H	I	J	K
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
256	Valve extension spindles	262 4.1 - DN100 to DN525/600 4.2 - Length by Design 4.3 - Valve extension spindles shall be coated with a polymeric coating to AS 4158 with 350 µm DFT (minimum), or Valve extension spindles shall be hot-dip galvanized in accordance with AS 4680 , or Valve extension spindles shall be injection moulded high strength, high stiffness glass fibre reinforced thermoplastic in accordance with the relevant sections of AS/NZS 2638.2:2011. 4.4 Spindle support with bearing at 1 per installation minimum and at 1.8 m max spacings for pit installation	Viadux		AS2638 Compliant		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
257			NIBF / Iplex								
258			Forge Bros / Vinidex								
259			Challenger								
260			Daemco								
261			ANT Infrastructure Technologies	ANT	Up to DN300			Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use is subject to acceptance by SP
262	DI fittings - tees and crosses with thermal bonded polymeric coating and built in resilient seated gate valves and vertical hydrant outlet	No WSA PS but WSA PS-260 for valve component 4.1 - PN16 4.2 - Flange-Flange 4.3 - No integral by-pass 4.4 - Gear Box on DN600 and larger (Refer Mechanical List) 4.5 - Anti-Clockwise closing 4.6 - No requirement for spindle cap colour 4.7 - Extension Spindle to WSA PS - 262 4.8 - Spindle Cap 4.9 - SBR & EPDM	Hawle / Hygrade Water	Combi Valve	DN100, DN150 & DN200	Thermal bonded polymeric coating is the standard material in WSA PS 201 and WSA PS 212.  All DI fittings to be wrapped	Use is subject to acceptance by SP		Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP
263	Ball Valves	274 4.1 - PN16 4.2 - Body material: CF8M316 stainless steel; Ball material: CF8M; Components not in contact with water: SS304; 4.3 - By product 4.4 - BSPT thread 4.5 - Clockwise closing	AVFI	V1 Series - 1 Piece V2 Series - 2 Piece V3 Series - 3 Piece V2FH Series- Flanged	DN8 – DN50 DN8 – DN100 DN8 – DN100 DN15 - DN50	BSPT threaded connections.  Suitable for sewage	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
264	CC-GRP (centrifugally cast) pipe and Fittings - Sewer Pipe	237S 4.1 - PN16 4.2 - SN10,000 minimum 4.3 - Soc-Sp RRJ 4.4 - Standard Glass 4.5 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN400 - DN1400	DI Fittings to WSA PS 201 for Tees and Bends	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP Coupling - Grade 316 Stainless Steel (min.)
265	FW-GRP (filament wound) pipe and Fittings - Sewer Pipe	205S 4.1 - As per product 4.2 - PN16 4.3 - SN10,000 minimum 4.4 - Bends, T-piece, Y-piece, Saddles, Reducers, Flanges and MH Couplings 4.5 - Soc-Sp RRJ 4.6 - Standard Glass 4.7 - SBR & EPDM	Flowtite / Iplex	Flowtite	DN300 - DN3000	DI Fittings to WSA PS 201 for Tees and Bends	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP Coupling - Grade 316 Stainless Steel (min.)
266			Global Pipe	Fiberstrong	DN300 - DN4000						
267			Superlit / Clover Pipelines	Superlit	DN300 - DN3000						
268	Flowmeter - Network Meter	No WSAA PS 4.1 - Flange to AS4087 Figure 5 4.2 - PN16	ABB	ABB			Use is subject to acceptance by SP	Use is subject to acceptance by SP		NOT ACCEPTED BY SP	ABB Water master
269			Siemens	Siemens						NOT ACCEPTED BY SP	Use is subject to acceptance by SP
270			E & H	E & H						E & H Promag W400	NOT ACCEPTED BY SP
271			Emerson	Emerson			Use is subject to acceptance by SP			NOT ACCEPTED 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
272	Category: SEWERAGE MISCELLANEOUS ITEMS										
273	Maintenance structure covers, frames and risers	290 4.1 - DN600 4.2 - Round Solid Top ( Conc Infill - Urban Utilities only ) Sealed Type 4.3 - 600 mm Clear Opening 4.4 - Class B and Class D 4.5 - Standard Lifting Key 4.6 - Markings to AS3996 Clause 1.6. 4.7 - No Hinge 4.8 - Standard Packaging and Delivery 4.9 - As per Standards 4.10 - Standard Coating 4.11 - Bolt down for Surcharge and overland flow areas, 4 x M12 (min) SS316 Bolts 4.12 - As per SP requirements 4.13 - Rocking of cover in frame is not permitted	Gatic / Milne			Refer Standard Drawings.  Covers with another Service Provider's name not accepted.  Use of Square and Rectangular Covers and Frames subject to SP approved based on Design needs	Concrete Infill Covers are NOT ACCEPTED BY SP  Approval of Class D subject to ultimate state load of 240KN as per AS3996:2019.	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		Concrete Infill Covers NOT ACCEPTED BY SP
274			EJ								
275			Webforge								
276			Civilmart								
277			Durham								
278			Hygrade								
279			Weldlok	Weldlok			Use is subject to acceptance by SP				
280			Ducast	Ducast			Use is subject to acceptance by SP				
281	Polymeric Riser Ring for Concrete Maintenance Holes	345 4.1 - Circular 4.2 - As per Manufacgturers requirements 4.3 - 600 mm Minimum as per SP clear opening requirements	ISC Services	Cretex Pro-Ring			Approved are Cretex Pro-Ring polymeric Class D angle, flat and grade make-up rings for sewer maintenance holes round of 610mm opening and rectangular of 914x610mm opening with thickness from 19 – 152mm .  Approved for retrofitting only.	Use is subject to prior approval by SEQ-SP. Use is only applicable to raising existing maintenance hole access cover & frame.	Use is subject to acceptance by SP	Use is subject to prior approval by SEQ-SP. Use is only applicable to raising existing maintenance hole access cover & frame.	Use is subject to prior approval by SEQ-SP. Use is only applicable to raising existing maintenance hole access cover & frame.
282	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.		Use is subject to acceptance by SP	Use is subject to acceptance by SP	
283			Webforge	Webforge (DCC4D32)		DI - Class D	Class E to be used for motorway locations as per AS3996:2019				
284	Maintenance hole lightweight polymeric lids and frames (non-corrosive)	292 4.1 - ≥DN 600 Round 4.2 - DN600 min clear opening 4.3 - Standard Lifting Key 4.4 - Markings to AS3996 Clause 1.6. 4.5 - Standard packaging 4.6 - No specific markings required 4.7 - Class B and Class D 4.8 - Bolt down for Surcharge and overland flow areas, 2 x M12 min SS316 Bolts 4.9 - As per design	Terra Firma			Composite - Class B and D Class E Ø600 clear opening is acceptable for the locations where Class D Ø600 clear opening is required	Non-Corrosive MH lids and frames are required for all MHs where internal protective coatings are required as per Clause 7.6.2 (i) to (vii) of the Sewerage Code	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
285			ACO SAKU			Composite - Class B	TMR approval may be required on TMR roads Approval of Class D subject to ultimate state load of 240KN as per AS3996:2019.				
286			Prime Composites			Composite – Class B and D	Class E to be used for motorway locations as per AS3996:2019				Use is subject to acceptance by SP
287			EJ	EJ SERVO		Composite – Class B and D	Use is subject to acceptance by SP				
288	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 - Nil 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				Use is subject to acceptance by SP	
289	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
290			Aymroo	Aymroo							
291			C & C Plastics / Havestock	Posistep							
292			Industrial Steps & Ladders	Sure-Step							
293	Ladders	315 4.1 - Type D - Fixed Ladder with two Stiles 4.2 - PBT, FRP, SS316, Galvanised Steel or Aluminium 4.3 - By Standards 4.4 - By Standards 4.5 - Reflectors optional 4.6 - 150 mm from CL of rung to MH wall 4.7 - By Standards 4.8 - Colour as per material 4.9 - SS 316	Miyama / Nextep	Miyama		Fibre reinforced plastics (yellow).  Brackets & Fasteners to be SS316.  Min. Clearances for Rung Type Ladders as per AS1657 Fixed Platforms, Walkways, Stairways and Ladders - Design and Installation	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		Use is subject to acceptance by SP
294			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.					
295			Galvanised Steel			Refer to Standard Drawings					
296			Aluminium								
297			Stainless Steel								

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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
	Maintenance Shaft PVC	321 4.1 - As per Standards 4.2 - As per Specifications 4.3 - As per Standards 4.4 - Inlet and Outlet at DN150 to DN225 4.5 - Configurations as shown in Standard drawings 4.6 - As per accepted product 4.7 - Inlet and Outlet Sewer connection RRJ 4.8 - Cap as shown in Standard Drawings 4.9 - As per Standard Drawings 4.10 - Connect to PCV-U DWV pipe 4.11 - Max depth 3.0 metres FSL to Invert of Sewer Pipe	Aymroo	Aymroo	DN300 PVC-U Riser Shaft	Configurations of "Central Axis" maintenance shaft (CAMS) are not accepted		Refer to clause 7.7.2 of the SEQ Sewerage Code	Refer to clause 7.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER
298	Maintenance Shafts PE	322 4.1 - As per Standards 4.2 - As per Specifications 4.3 - As per Standards 4.4.1 - Inlet and Outlet at DN150 to DN225 for PVC RIGSS 4.4.2 - Inlet and Outlet at DN160 to DN250 for PE Nusewer 4.5 - Configurations as shown in Standard drawings 4.6 - As per accepted product 4.7.1 - Inlet and Outlet PVC Sewer connection RRJ 4.7.2 - Inlet and Outlet PE Sewer connection Electrofusion 4.8 - Cap as shown in Standard Drawings 4.9 - As per Standard Drawings 4.10 - Max depth 3.0 metres FSL to Invert of Pipe	Smartstream	Poo-Pit		RIGSS DN300 PVC riser shaft. Nusewer fully welded with DN315 PE risers and sewer stubs.	Approved for DN150 to DN225 RIGSS only. Refer Standard Drawing SEQ-SEW-1314 Set for other approved PE MS and MH options	Approved for DN150 RIGSS only. Refer to clause 7.7.2 of the SEQ Sewerage Code	Approved for DN150 to DN225 RIGSS only. Refer to clause 7.7.2 of the SEQ Sewerage Code. Refer Standard Drawing SEQ-SEW-1314 Set for other approved PE MS and MH options	Max depth of 5.0 meters is acceptable	
299	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			Refer to clause 7.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER
300		341 4.1 - DN300 Risers 4.2 - PVC Riser 4.3 - SN8 riser pipe 4.4 - DN150 sewer 4.5 - In-line and bends and tees 4.6 - Base ribbed, Riser Solid Wall PVC 4.7 - EPDM or SBR Ring Joints RIGSS 4.8 -Locking relief cap as per Standard Drawings 4.9 - Standard MH surround, cover and frame 4.10- Max depth 3.0 meters to Invert of Sewer Pipe	SMS		SMS PA 09/08 parts 0 to 5 Code: MS1 Code: MS2 Code: MS5	Refer Standard Drawings			Refer to clause 7.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER
301			REHAU		OD400-GD (Type H12) OD400-RML (Type H13)						
302											
	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			Refer to clause 7.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER
303		337 4.1 - DN600 Corrugated Risers 4.2 - DN600 PP Base, PP Riser, no Cone 4.3 - Riser pipe stiffness SN4 minimum 4.4 - DN150, DN225, 4.5 - Configurations: In-line, 30° 60° 90° bends 4.6 - Ribbed base and corrugated riser 4.7 - Elastomeric seal joint 4.8 - No locking or relief cap 4.9.1 - Telescopic adapter for Class B installations 4.9.2 - Standard MH surround, cover and frame 4.10 - Max depth 3.0 meters to Invert of Sewer Pipe	REHAU		DN600			Diameters > DN 600 subject to individual approval	Refer to clause 7.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER
304											
	Maintenance Chambers Polyethylene (PE)	338 4.1 - DN600 PE Riser 4.2 - PE Riser and Cone 4.3 - Riser pipe stiffness SN4 minimum 4.4 - Inlet and Outlet at DN150 to DN225 for PVC RIGSS 4.5 - Configurations as shown in Standard drawings - same as Type J 4.6 - Plain Wall PE Rotomould 4.7 - Inlet and Outlet PVC Sewer connection RRJ 4.8 - No Locking Cap 4.9 - Concrete Spreader slab and 600 MH Cover 4.10 - Max depth 3.0 meters to Invert of Sewer Pipe	Smartstream	Mini pit	DN600				Use is Subject to acceptance by SP	NOT ACCEPTED BY SP	ACCEPTED FOR RIGGS NOT ACCEPTED FOR NUSEWER
305											

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	A	B	C	D	E	F	G	H	I	J	K
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
306	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 subject to acceptance by SP	Use of MS is subject to acceptance by SP	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
307			Rocla								
308			Civilmart	Civilmart (BCP Precast)							
309	Pre-cast Concrete Converter Top Slab	No WSA PS 1 - Refer Standard Drawings	Everhard			Refer Standard Drawings.  Calcareous aggregates to be used					
310			Civilmart								
311			Australian Quality Precast								
312			Aquarius Precast								
313			First Contact Civil Supplies								
314	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	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
315			Rehau	AWASHAFT	DN1000						Accepted for RIGSS, not accepted for NUSEWER.
316			Iplex	Ezipit	DN1000		Use is subject to acceptance by SP			NOT ACCEPTED BY SP	Use is subject to acceptance by SP
317	Vent poles	325 and 326 1 - Project Specific outcome	RPC Technologies			Refer Standard Drawings.  Tapered, Galvanised, height as design.  Preferred colour: heritage or mist green	Accepted option is RPC for a GRP pole @ designed height	Accepted option is RPC for a GRP pole @ designed height	Accepted option is RPC for a GRP pole @ designed height	Use is subject to acceptance by SP	Use is subject to acceptance by SP
318			Ingal EPS							Accepted Height 12.0 m	
319			McBerns				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	
320	Valve box and cover C.I. & D.I.	No WSA PS 1 - Refer details on SEQ Code Standard Drawing SEQ-WAT-1305-1	Viadux		As per drawing SEQ-WAT-1305-1 Type B	Refer Water Code Standard Drawings for approved Valve Box and Cover  Class D Cover Bitumen coated to AS 3750.4				Use is subject to acceptance by SP	Only Class D accepted
321			NIBF								
322			Gatic / Milne								
323			Civilmart								
324			Hygrade Water				Hygrade Water				
325			Daemco								
326			Civil Pipes				Civil Pipes	Use is subject to acceptance by SP			
327	Valve pit access cover and frame	290 4.1 - 600 × 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) Aluminum 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	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
328			Gatic								
329			Civilmart								
330			Webforge								
331			Hygrade								
332			EJ								
333			Durham								
334			Ducast								
335			Mass Products								
336	Valve pit lightweight polymeric lids and frames (non-corrosive)	292 4.1 - 600 × 900 mm (Min.) 4.2 - 600 by 900 mm Clear Opening (Min.) 4.3 - Standard Lifting Key 4.4 - Markings to AS3996 Clause 1.6 (a) to (f) 4.5 - Standard packaging 4.6 - No specific markings required 4.7 - Class B for non-trafficable areas and Class D for trafficable areas 4.8 - Bolt down requirement by design 4.9 - As per Design	Prime Composites			Refer Standard Drawings SEQ-SPS-1602-1 and SEQ-SPS-1606-1	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
337			EJ								
338			Terra Firma								
339			ACO SAKU								
340	Loose PE sleeving to DI pipe	320 4.1 Cream Colour to POP203	Viadux	BLUEBOSS Cream		Mandatory sleeving to all DI pipe unless DI pipe manufacturer supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	Gravity pipe Grey colour Pressure pipe Cream colour	Gravity pipe Grey colour Pressure pipe Cream colour	Gravity pipe Grey colour Pressure pipe Cream colour		
341			Crevet								

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						October 2021	ACCEPTED CIVIL PRODUCTS AND MATERIALS						
	A	B	C	D	E	F	G	H	I	J	K		
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (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		
342	Embedment material - crushed rock	351 4.1 - Single sized 4.2 - Nominal 5 or 7 mm											
343	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		
344	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											
345	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		
346	Gas release valves	275 Refer Appendix B of AS4883 4.1 - Size of Valve - DN50 BSP, DN50 to DN200 Flanged. 4.2 - Class of valve - PN16 4.3 - Type of Port - Full and Reduced port 4.4 - Type of Valve - As per design needs 4.5 - Hydraulic Data - By design to AS4883 Appendix B	ARI Flow control		DN50-DN200	PN16, Anti Slam as required, Thermal bonded polymeric coating or 316 Stainless steel	DN225 and larger mains to only use Vinloc-Smartvalve	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	See drawing SEQ-SPS-1605-1 for standard gas release valve arrangement (manual operation). When Urban Utilities requires an automatic gas release valve, Vent Master PX is accepted. Use of others is subject to acceptance.	DN225 and larger mains to only use Vinloc-Smartvalve		
347			Bermad										
348			Vent-O-Mat					NOT ACCEPTED BY SP	Use is subject to acceptance by SP				
349			Odour Technologies	Vinloc-Smartvalve									
350			AVFI	ARV-3-N									
351			ISCO	Vent Master PX				NOT ACCEPTED BY SP	Use is subject to acceptance by SP				
352	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	Valmatic Swing-flex	DN50 - DN600	MIN. PN16, Thermal bonded polymeric coating	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP		
353			Dobbie Dico	Dobbie Dico	DN80-DN900								
354			AVK	AVK Swing Check Valve 41/25	DN50								
355			AVK	AVK Swing Check Valve 41/8X	DN80-DN300								
356			Challenger Valves	Challenger - RSSC	DN80-DN375								
357				AVFI Pty Ltd	AVFI - RSSC	DN50-DN300		NOT ACCEPTED BY SP					
358	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	Valmatic Swing-flex	DN50 - DN600	MIN. PN16, Thermal bonded polymeric coating	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
359				Dobbie Dico	Dobbie Dico	DN80-DN900							
360				AVK	AVK Swing Check Valve 41/25	DN50							
361				AVK	AVK Swing Check Valve 41/8X	DN80-DN300							
362		Challenger Valves		Challenger - RSSC	DN80-DN375								
363				AVFI Pty Ltd	AVFI - RSFC	DN80 – DN600			Use is subject to acceptance by SP		NOT ACCEPTED BY SP		
364	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 accepted		Vinindex	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	
365				Iplex									
366				Holman Industries									
367				M.E. Christensen									
368	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	Vinindex	Long radius 3000 mm bends	DN150 as bent pipe & DN225 as bent or fabricated pipe	AS/NZS 1260 SN8.  DN150 Bends available from 5Deg to 45Deg.  DN225 and larger individually fabricated to 45Deg.			Use is subject to acceptance by SP	NOT ACCEPTED BY SP			
369			Iplex										
370			Tri Underground										
371			Holman Industries										
372			M.E. Christensen										
373	PVC-U fully moulded SN8 and SN10 heavy duty junctions, bends and inspection tees	230 4.1 - Plain wall 4.2 - RRJ 4.3 - Min SN10 for DN100 and SN8 for DN150 and larger 4.4 - NBR or SBR or EPDM 4.5 - Heavy duty fittings shall be used 4.6 - One piece fully moulded 4.7 - Fibre reinforcement is not required	Holman Industries	Holman/Fabfit	DN100 and DN150	Currently approved are: Heavy duty RRJ Junctions (45 degree), bends (43, 45 and 88 degrees) and inspection tees for property connections  SN rating (SN8 or SN10) and letters "Heavy Duty" (Super Duty) shall be imprinted on the surface of fittings.  These one piece fully moulded fittings junctions and bends are to be used for Type A and B sewer property connections and are approved alternatives to the currently approved multi-piece fabricated fibre reinforced fittings			Use is subject to acceptance by SP	Use is subject to acceptance by SP			
374			Plastec	Plastec									

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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	
375	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	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
376	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	Use is subject to acceptance by SP	
377	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									
378			Tapex									Use is subject to acceptance by SP
379			Rain Harvesting	421								
380	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						
381	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		
382	Hydrophilic Seal			Hydrotite								
383				KuniSeal C-31 DS			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
384	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						
385				HD Series	Runner height of 30, 50, 75 and 100mm 110mm OD to 355mm OD (un-grouted annulus). May be used on carrier pipe diameters greater than 355mm OD where the annulus will be grouted	For SCL, DI, PE, PVC and GRP carrier pipes	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
386	Kerb Markers	248 4.1 - SS, Copper Alloy 4.2 - S, IV, GV,SV, VV, RM 4.3 - Circular 4.4 - 19mm 4.5 - 40mm diameter				As per SEQ-SEW-1103-3 and SEQ-SPS-1508-2	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Only Brass markers accepted	
387	Camlock					S/Steel 316					Maximum DN100	
388	Protective internal lining - Polyethylene	No WSA PS (refer WSA 201 Manual for Selection and Application of Protective Coatings)	Steuler		min. 2.5 mm thickness	Mechanically anchored PE lining cast into wall & underside of top slab. PE liner shall be light in colour i.e. either white, cream, beige or yellow.					PE lining Mandatory for Sewerage Pump Stations, Collector Manholes and Sewer Rising Main Discharge Manholes	
389			Agrusafe									
390			Bluey Technologies									
391			AKS									
392	Protective internal coating - other coating types	No WSA PS (refer WSA 201 Manual for Selection and Application of Protective Coatings) SEQ SPs requirements: 1 - Two component epoxy, solvent free, 100% solids 2 - Suitable for provision of single coats >=0.6mm thick 3 - Excellent stated resistance to Sulphuric Acid via Test results 4 - Minimum 15 minute Pot Life at 20 degrees C 5 - Light coloured 6 - Applied to manufacturers requirements 7 - Combined 10 year warranty from Applicator and Manufacturer	Peerless Industrial Systems	Epigen 4029		Colour white to grey	Internal coatings at 2.0 mm thick via minimum of two coats – this requirement overrides Note G14 on SEQ-SPS-1402-1.	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP Only cementitious or epoxy mortars to be used on existing concrete structures. (Mortar coating typically 25mm thick)	Use is subject to acceptance by SP (minimum 2.0 mm thickness)	
393				Epigen 1311 Ultra								
394			Sika Australia	Sikagard - 63N								
395			Hychem Epoxy Systems	Hychem TL5								
396			International Paints	Celcoat 2000 Flakeline								
397			ITWPF	Epirez 733UHB								
398			Fernco / JDP Applications	Ultracoat Epoxy Coating								
399			Interflow	Interchem CAC								
400			BASF	MasterSeal 7000CR								Use is subject to acceptance by SP
401			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						
402			Parchem	Sewpercoat								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
403	Protective external coating	No WSA PS (refer WSA 201 Manual for Selection and Application of Protective Coatings) SEQ SPs requirements: 1 - Two Component solvent free polyurethane 2 - Suitable for provision of single coats >=0.6mm thick 3 - Excellent stated resistance to Sulphuric Acid via Test results 4 - Minimum 15 minute Pot Life at 20 degrees C 5 - Light coloured 6 - Applied to manufacturers requirements 7 - Combined 10 year warranty from Applicator and Manufacturer	Steuler KCH	Oxydur PTB		Colour white to grey & heritage green	Use is subject to acceptance by SP.  External coatings at min 0.3 mm thick dry film via single coat.  Sulphuric Acid Resistance to suit site conditions.  SP Approved Equivalents are the listed Internal coatings	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP	Use is subject to acceptance by SP (minimum 2.0 mm thickness)
404	Precast concrete packaged sewage pumping stations	No WSA PS 1 - Suppliers to manage the project and to coordinate the construction	Aquatec		DN2.25m and DN3.20m	To be used for reticulation systems only (not for trunk sewers)	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	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
405			Xylem		DN1.80m, DN2.20m and DN3.0m	Subject to geotechnical conditions (e.g. not be used for water charged areas)					

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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	
406	Category: WATER SUPPLY PIPES - PRESSURE											
407	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	
408			Vinindex	Hydro								
409			Viadux	Plaspipe								
410			Micron Pipelines	Micron Pipelines	DN100 to DN300					Use is subject to acceptance by SP		
411			Pipemakers	Pipemakers Enviromain	DN100 to DN300					Only accepted where PE is unsuitable		
412	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		
413			Vinindex	Supermain	DN100 - DN375							
414			Micron Pipelines	Micron Pipelines								
415			Pipemakers	Alphamain	DN100 to DN150							
416				TOM®	Up to DN 375							
417	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	Vinindex	ZAP-GP	DN250 - DN750 (not 225)	PN 20	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Seal coat on pipes >= 450 Seal coat requirement is dependant on water quality. PN20 - Use is subject to acceptance by SP	
418			Clover Pipelines	Clover/Xinxing (ZnAIRE400)								
419			Jindal SAW / Iplex									
420			Jindal SAW / Iplex	Jindal SAW	DN100 to DN750 (not 225)	PN 35 and Flange Class, CP 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 Use of Beaver-Jindal products is subject to acceptance by SP	Seal coat on pipes >= 450 Use of Beaver-Jindal products is subject to acceptance by SP	Use is subject to acceptance by SP	Restraint joint seals <b>not</b> suitable for: -PN20 pipe; -Aboveground applications; -Combining joint restraint and thrust blocks; -Epoxy or fusion coated spigots -Other manufacturers sockets or other pipe materials.  Use of Clover Pipelines and Beaver-Jindal is subject to acceptance by SP	
421			Xinxing / Iplex	Irontite (XINAL400+ coating)	Up to DN 750 (not 225)							
422			Vinindex	ZAP-GP								
423			Saint-Gobain	PAM/TYTON Hydroclass Zinalium	DN100 – DN750 (not 225)							
424			Viadux	DIMAX/TYTONXCEL Z+								
425			Clover Pipelines	Clover/Xinxing (ZnAIRE400)	DN100 to DN300 (not 225)					Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
426			Clover Pipelines	Clover/Samsun			Accepted where PE is unsuitable for reticulation mains. Accepted for mains > 300 NB. Seal coating required for all sizes.					
427			Reece / Viadux	DIMAX/TYTON XCEED Z+		DN100 to 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			
428			Jindal SAW / Iplex	Jindal SAW	Min 1300 micron Polyurethane internal lining							
429	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	
430	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	
431	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	
432			Pipe Lining and Coating	Fusionkote	OD168, 219, 257, 273, 324 to 3624							

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433	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 - Mains Colour Blue Solid for Drinking Water and Purple solid for Non-Drinking Water with Water Service pipe Black with Blue Stripes for Drinking Water and Purple solid for Non-Drinking Water, refer POP203. 4.5 - PE100 only	Iplex		DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800	PE100 PN16.  Blue colour - solid or striped for drinking water.  Purple colour - solid for non-drinking water.  For directional drilling installations, minimum SDR 9 (PN20 PE100) unless specified otherwise and install with tracer wire. Pipe wall thickness to be designed for installation forces.  Butt welded joints are 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 subject to acceptance	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.		
434			Vinidex									
435			David Moss Corporation	DAMOS								
436			Cromford	Identi-pipe								
437			Poly Pipe									
438			Enviropipes	Enviropressure								
439			ACP	ACP	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315							
440			Pipemakers	Pipemakers	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800							
441			Clover	Clover/Rohr	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630							
442			Acu-Tech	Acu-Tech	DN40 – DN800							
443	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			
444	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 - Mains Colour Blue Solid for Drinking Water and Purple solid for Non-Drinking Water with Water Service pipe Black with Blue Stripes for Drinking Water and Purple solid for Non-Drinking Water, refer POP203. 4.5 - HSCR PE100 only	Iplex	Millennium HSCR PE	DN25 32 40 50 63 90 125 180 250 315 355 450 560 630 800	For directional drilling and pipe bursting installations, minimum SDR 9 (PN20 HSCR PE100) unless specified otherwise and install with tracer wires.  Pipe wall thickness to be specified as normal PE100 as such "extra" strength should be provided.  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	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
445			Acu-Tech	Acu-Tech								Use is subject to acceptance by SP
446	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	Use is subject to acceptance by SP		Use is subject to acceptance by SP	
447	CC-GRP (centrifugally cast) pipe and Fittings - Water main	237 4.1 - PN16 minimum 4.2 - SN 10,000 minimum 4.3 - Sp-Sp RRJ Coupling and FI Joints 4.4 - Standard Glass 4.5 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN400 - DN1400	Minimum SN10000, PN16	Use is subject to acceptance by SP.  DI Fittings preferred	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
448	FW-GRP (filament wound) pipe and Fittings - Water main	205 4.1 - DN300 and larger 4.2 - PN16 minimum 4.3 - SN 10,000 minimum 4.4 - Standard bend forms permitted 4.5 - Sp-Sp RRJ Coupling and FI Joints 4.6 - Standard Glass 4.7 - SBR & EPDM	Flowtite / Iplex	Flowtite	DN300 - DN3000	Minimum SN10000, PN16	Use is subject to acceptance by SP.  DI Fittings preferred	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
449			Global Pipe	Fiberstrong	DN300 - DN4000							
450			Superlit / Clover Pipelines	Superlit	DN300 - DN3000							
451	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	Use is subject to acceptance by SP	
452		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	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	
453	Category: WATER SUPPLY FITTINGS - PRESSURE											
454	Lightweight DI bends, tees/branches & connectors	201 4.1 - Soc-Soc, Soc-Fi & Fi-Fi 4.2 - PN16 fittings 4.3 - Restraint Joint Seals by SP approval 4.3 - SBR & EPDM	Viadux	Auslite	DN100 & DN150	Lightweight fittings.  Thermal bonded polymeric coating.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use of Restrained Joint Rubber Rings (Tyton-Iok) subject to acceptance by SP	
455			Dobbie Dico	Dobbie	DN100 to DN150	All DI fittings to be wrapped						
456			Himigiri Castings/Galvin Engineering / CivilPipes	Galvin	DN100 & DN150							
457			Clover Pipelines	Clover	DN100 to DN150							
458	DI bends, tapers, tees/branches, connectors, risers & caps/blank ends	201 4.1 - Soc-Soc, Sp-Sp, Fi-Fi, Soc-Sp, Soc-Fi & Sp-Fi 4.2 - Standard and PN16 fittings 4.3 - Restraint Joint Seals by SP approval 4.4 - SBR & EPDM	Viadux	Tyton Joint & Sureflow	Up to DN750	Thermal bonded polymeric coating.  All DI fittings to be wrapped	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Fi-Soc & Fi-Sp Connectors accepted up to DN375	Restraint joint seals not suitable for: PN20 pipe; Aboveground applications; Combining joint restraint and thrust blocks; Epoxy or fusion coated spigots; Other manufacturers sockets or other pipe materials.  Use of Restrained Joint Rubber Rings (Tyton-Iok) subject to acceptance by SP	
459			Crevet / Iplex	Crevet								
460			Vinindex	Superlink								
461			Derwent Industries		Up to DN750							
462			Gillies		DN100 & DN150							
463			Himigiri Castings/Galvin Engineering / CivilPipes	Galvin	DN80 to DN300							
464			Dobbie Dico	Dobbie	DN100 to DN250							
465			Mallet	Mallet	DN80 to DN750							
466			Clover Pipelines		DN100 to DN150							
467	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			
468	DI mechanical couplings - Non End Thrust Restraint	270 4.1 - PN16 4.2 - All pipe materials except PE 4.3 - Long Series 4.4 - Straight Soc-Soc 4.5 - Stepped coupling require SP approval 4.6 - Flange end not used 4.7 - SBR & EPDM 4.8 - SS316 bolts, nuts and washers	Viadux	Gibault Ezigib & Vari-Gib	Up to DN750	Long type only.  All DI fittings to be wrapped.  DI must have thermal bonded polymeric coating	CLOVER GIBALT NOT ACCEPTED BY SP	Use is subject to acceptance by SP				
469			Crevet	Gibault & Universal Multigib								
470			AVK	Gibault & Universal								
471				AVK Supa-Gib Couplings	Up to DN675							
472			Viking Johnson	MaxiFit, QuickFit	DN100 to DN300							
473			Derwent Industries	Derwent								
474			DEKS	DEKS FLEXI-GIB								DN80 to DN750
475			Daemco	Reinoversal	Up to DN 600							
476			Clover Pipelines	Connect VPC	DN100 to DN600							
477	DI mechanical couplings - End Thrust Restraint (Gripper Type)	271 4.1 - PN16 4.2 - CI, DI, PE, SCL, AC 4.3 - Long Series 4.4 - Straight and Stepped and Flange Adaptor 4.5 - All DN range options 4.6 - Flange adaptors to be drilled as per AS/NZS 4087 Figure B5 4.7 - SBR & EPDM & Nitrile 4.8 - Use of pipe stiffener inserts for PE pipe as per fitting manufacturer's requirements 4.9 - All DI fittings to be wrapped with CI and DI systems 4.10 - Flange adaptors up to DN355 PE shall be full bore connection i.e. DN63 PE / DN50 FL, DN125 PE / DN100 FL, DN180 PE / DN150 FL, DN250 PE / DN200 FL, DN315 PE / DN250 FL and DN355 PE / DN300 FL	Hawle / Hygrade Water	Synoflex PN16 Restraint	DN50-DN300	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.	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	The use of gripper type fittings on AC, DI and SCL pipe subject to acceptance by SP	
478			Georg Fischer	Multi/ joint 3000 Plus restraint		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.						
479			Nova Siria/Hygrade Water	Multigrip	DN350-DN1400	Requires pipe stiffener insert to be installed when connecting to PN16 (SDR 11) PE100 pipe.						
480			Viking Johnson	UltraGrip	DN100 - DN300							
481		245 for PE 4.1 - PN16 4.2 - SBR, EPDM and Nitrile 4.3 - Use of pipe stiffener inserts for PE pipe as per fitting manufacturer's requirements 4.4 - Flange adaptors up to DN355 shall be full bore connection i.e. DN63 PE / DN50 FL, DN125 PE / DN100 FL, DN180 PE / DN150 FL, DN250 PE / DN200 FL, DN315 PE / DN250 FL and DN355 PE / DN300 FL	Hawle / Hygrade Water	System 2000	DN63-DN355	Does not require pipe stiffener inserts to be installed on PN16 (SDR 11) PE100 pipe.	Use is subject to acceptance by SP		Use is subject to acceptance by SP	Use of Hawle System 2000 and AVK SupaPlus restraint Couplings is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations		
482			AVK	Supa Plus Restraint	DN63 - DN315	Requires pipe stiffener inserts to be installed						
483			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.						
484			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.						
485			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.						
486		DI flanged telescopic flexible fitting	No WSA PS 1 - Aligned to WSA PS-201 and WSA PS-270 with Flanges to AS 4087 Figure B5 2 - To comply with WSA PS-201S when published	Hawle / Hygrade Water	Vario	DN50 - DN200		SP USE ONLY			SP USE ONLY	
487		Small DN Ductile Iron Restraint Fittings at PE ODs	No WSA PS 1 - PN16 minimum	Saint-Gobain PAM	IZIFIT	DN75-DN160	For use directly with PE and BLUTOP pipe.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP

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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											
488	Pretapped connectors	201 4.1 - Soc-Soc only 4.2 - Standard PN16 fittings 4.3 - Restraint Joint Seals by approval 4.4 - SBR & EPDM	Clover Pipelines	Clover	DN100 to DN150	Thermal bonded polymeric coating  DN100 to DN150 with 4 x 20BSP tappings at 2 per side and DN200 to DN300 1 x 50BSP tapping		SP USE ONLY	Use is subject to acceptance by SP		Use of pretapped connectors is under review
489			Viadux	Readytap	DN100 to 300						
490			Crevet / Iplex	Pretapped	DN100 & DN150						
491			Vinidex	Superlink	DN100 & DN150						
492			Himigiri Castings/Galvin Engineering / CivilPipes	Galvin	DN100 & DN150		Use is subject to acceptance by SP				
493			Daemco	Daemco	Up to DN300				Use is subject to acceptance by SP		
494			Derwent	Derwent	DN100 - DN300					Use is subject to acceptance by SP	
495	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	Use is subject to acceptance by SP		Type R accepted only  In acid sulphate soils the clamp must be Denso wrapped.
496			Viadux	Wang	DN100 to DN300		Use is subject to acceptance by SP				
497			Cascade Control	Rapid Clamps	DN40 to DN350						
498			Daemco	Norma Connect	DN80 to DN300		Only repair clamps accepted.  Type R and Type F repair clamps are available in sizes of DN80 (88-98), DN100 (121-130), DN150 (176-183), DN200 (231-238), DN225 (258-265), DN250 (285-290) and DN300 (344-353) – all other sizes are Type R only.				
499			AVK	AVK Series 748	Up to DN300		Only Type R offtake and repair clamps accepted. Offtake clamps accepted to be used where under pressure connection is approved by SP.				
500			Derwent		Up to DN300		Only Type R repair clamps accepted.				
501			Cascade Control	Rapid Clamps CT2 tapping saddles	DN125 – DN355		Use is subject to acceptance by SP				
502	Flange (DI) off-take clamps for DIOD pipes	313 4.1 - Type R, Type F or Type R and Type F by SP approval 4.2 - Pipe DN by SP approval 4.3 - Off-take DN by approval 4.4 - Min. PN16	Derwent	Uniclamp	DN100 & DN150	Flanged off-take clamps approved Type R for DI, AC and CI host pipes and Type F for PVC-m, PVC-u only, to pipe manufacturers specifications.  Host pipe to be of suitable condition.	Type R and Type F accepted  Accepted to be used where under pressure connection is approved by SP		Use is subject to acceptance by SP	Only DN100 flange offtake accepted	
503	Repair Couplings	270 4.1 - PN16 4.2 - All pipe materials 4.3 - Short and Long Series 4.4 - Straight and Stepped 4.5 - All DN Range options 4.6 - Flange end not used 4.7 - EPDM, NBR, Neoprene 4.8 - SS316 bolts, nuts and washers	Nova Siria/Hygrade Water	Duofit	DN 300 - DN2000		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
504			Hygrade Water Australia	cQuick Encapsulation Repair collar	DN 80 - DN200						
505			AVK	Series 208 Encapsulation Repair collar	DN 80 - DN200						
506	Flange DI off-take clamps	310 4.1 - Pipe DN63 and larger (see WSA PS 207) - Off-take ID 20 mm minimum 4.2 - With or without electrical Isolation 4.3 - Female Rp thread to AS ISO 7.1	Hawle/Hygrade Water	Haku	DN110 to DN355	For use on PE pipe only, installed and commissioned in accordance with manufacturers recommendations	Accepted to be used where under pressure connection is approved by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Where fitting is used as a hydrant tee, fitting is to be installed as an under pressure cut-in connection	
507			Derwent	Uniclamp	DN125 and DN180						

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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			
508		260 4.1 - PN16 4.2 - FI-FI, Soc-Soc, Sp-Sp, FI-Soc, FI-Sp and FI-gripper socket end configurations accepted 4.3 - Integral By-pass on DN450 and larger (Not accepted by Unitywater and Urban Utilities) 4.4 - Gear Box on DN600 and larger (Refer Mechanical List) 4.5 - Anti-Clockwise closing 4.6 - No requirement for spindle cap colour 4.7 - Extension Spindle to WSA PS - 262 4.8 - Spindle Cap 4.9 - SBR & EPDM 4.10 - Stiffener inserts for PE pipe as per manufacturers requirements 4.11 - For Urban Utilities, RSGV's shall only be used on mains ≤ 300 NB	AVK	Series 57 (light type only for DN100 & 150) Series 570 Series 55	Up to DN400  Up to DN600 DN450 to DN600	Anchor legs approved  All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted	DN500 and DN600 with DN100 By-pass  DN750 with DN150 By-pass				Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.			
509			Hawle / Hygrade Water	E2 E2 System 2000	DN50 - DN200 DN50 - DN300							Use is subject to acceptance by SP		
510			Hawle / Hygrade Water	E3 (FL-FL)	DN100-DN300							Use is subject to acceptance by SP	Use is subject to acceptance by SP	
511			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							Use of Auslite II is subject to acceptance by SP		
512			Karon / Challenger	Karon Karon (FL-FL light weight design) Karon (FL-FL integral bypass valves)	DN80 - DN600 DN80 - DN300 DN450 - DN600	All DI fittings to be wrapped	DN500 and DN600 with DN100 By-pass  DN750 with DN150 By-pass	Use of Karon / Challenger (FL-FL light weight design) is subject to acceptance by SP	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP			
513			AVFI		DN80 -DN600								Use is subject to acceptance by SP	NOT ACCEPTED BY SP
514			Betta	BETTA	DN80 - DN600									
515			AAP Industries	Maxiflo/appFLO	DN80 to DN300								Use is subject to acceptance by SP	
516			Derwent Industries	Derwent	DN80 - DN600	DN80 to DN300 for Soc-Sp DN80 to DN375 for FL	DN500 and DN600 with DN100 By-pass  DN750 with DN150 By-pass							
517			DAEMCO											
518			Reece	DIMAX	DN80 – DN600 (FI-FI) DN100 – DN150 (Soc-Soc) DN100 – DN150 (Sp-Sp)								Use is subject to acceptance by SP	
519			Resilient Seated Gate Valves, thermal bonded polymeric coating.	278 (RSGV's with PE tails) 4.1 - PN16 4.2 - Anti-Clockwise closing Configurations accepted 4.3 - No requirement for spindle cap colour 4.4 - Extension Spindle to WSA PS - 262 4.5 - Spindle Cap required 4.6 - Integral By-pass on DN450 and larger (Not accepted by Unitywater and Urban Utilities) 4.7 - For Urban Utilities, RSGV's shall only be used on mains ≤ 300 NB	AVK	Series 36/80	Up to DN300	All valves shall be restrained. All DI fittings to be wrapped.		NOT ACCEPTED BY SP		Use is subject to acceptance by SP		
520					Hawle	E2	Up to DN200							
521	Betta	Betta			DN100 & DN150									
522	281 (RSGV's with restrained/gripper ends) 4.1 - PN16 4.2 - Anti-Clockwise closing Configurations accepted 4.3 - No requirement for spindle cap colour 4.4 - Extension Spindle to WSA PS - 262 4.5 - Spindle Cap required 4.6 - SBR & EPDM 4.7 - Stiffener inserts for PE pipe as per manufacturers requirements 4.8 - Integral By-pass on DN450 and larger (Not accepted by Unitywater and Urban Utilities) 4.9 - For Urban Utilities, RSGV's shall only be used on mains ≤ 300 NB	AVK		Series 01/71	Up to DN300	All valves shall be restrained. All DI fittings to be wrapped.		NOT ACCEPTED BY SP		Use is subject to acceptance by SP	Use of gripper type RSGV's is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations			
523		Hawle		E2 System 2000	DN50 - DN300									
524		Betta		BETTA	DN100 - DN300									
525		Derwent Industries		Derwent	DN100 - DN150									
526	DAEMCO			DN100 - DN150	DN80-300 (FL-FL)	PN25  Anchor legs approved  All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted  All DI fittings to be wrapped	Use is subject to acceptance by SP		Use is subject to acceptance by SP	Use is subject to acceptance by SP				
527	Reece	DIMAX												
528	283 1 - PN16 resilient seated gate valves for under pressure line stopping application for water supply 2 - For Urban Utilities, RSGV's shall only be used on mains ≤ 300 NB	Daepoong/ CNS Engineering		S- Gate Valve	DN100 - DN250	Valve for Underpressure Line Stopping, suitable for rigid pipes with CIOD compatibility, i.e. Ductile Iron, Cast Iron and Asbestos Cement  Valves that are unable to be restrained are not accepted.  All DI fittings to be wrapped	SP USE ONLY	SP USE ONLY	Use is subject to acceptance by SP	SP USE ONLY	SP USE ONLY			

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529	Metal seated gate valves, thermal bonded polymeric coating	261 4.1 - PN16 4.2 - FI-FI 4.3 - Gearbox typically on DN600 and larger (Refer Mechanical IPAM List) 4.4 - Anti-clockwise closing 4.5 - No requirement for spindle cap colour 4.6 - Extension spindle to WSA PS-262 4.7 - Spindle Cap 4.8 - SBR & EPDM 4.9 - Integral bypass not accepted by Urban Utilities 4.10 - For Urban Utilities, MSGVs shall only be used on mains > 300 NB	AVK	Series 580	DN375 – DN600	All DI fittings to be wrapped. All valves shall be restrained	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		
530				Sureflow Series 2580	DN375 – DN600								
531	DI fittings - tees and crosses with thermal bonded polymeric coating and built in resilient seated gate valves and vertical hydrant outlet	No WSA PS but WSA PS-260 for valve component 4.1 - PN16 4.2 - Flange-Flange 4.3 - No integral bypass 4.4 - Gear Box on DN600 and larger (Refer Mechanical List) 4.5 - Anti-clockwise closing 4.6 - No requirement for spindle cap colour 4.7 - Extension Spindle to WSA PS - 262 4.8 - Spindle Cap 4.9 - SBR & EPDM	Hawle / Hygrade Water	Combi Valve	Dn100, DN150 & DN200	Thermal bonded polymeric coating.  All DI fittings to be wrapped	Use is subject to acceptance by SP		Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP		
532	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 Property Service valves are wafer type for in-ground installations and are anti-clockwise closing operated.  DN100 to DN300 Property Service valves are lugged type for above ground installations and are anti-clockwise closing operated.  DN375 and larger valves are all double flanged type and are anti-clockwise closing gearbox operated	Use is subject to acceptance by SP Direction of closing: Anti-clockwise	Use is subject to acceptance by SP Direction of closing: Anti-clockwise	Use is subject to acceptance by SP	Direction of closing: Clockwise Wafer or Lugged valves not accepted without prior approval		
533			Emerson / Viadux	Keystone									
534			Ebro	Ebro									
535			AVFI	AVFI									
536			Valveco	Valveco									
537			Challenger	Challenger									
538			Reece	DIMAX									
539			Hydroflow Distributors	Watts			Use is subject to acceptance by SP						
540	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	Swabbing type at main ends refer SEQ-WAT-1302-1	Swab type only accepted.	Swab type only accepted. All new hydrants are to be 100 mm with 100 mm flanges, 100 mm risers and spring heads		
541			Viadux	Sureflow									
542			Civil Pipe Supplies	BETTA normal & Swab									
543			AAP Industries	MAXIFLO/appFLO									
544			Derwent Industries	Derwent standard and Swab									
545			Dobbie Dico				Use is subject to acceptance by SP						
546			Weflo Valve / Reece	DIMAX			DN80 flange for SP Use Only. Swabbing type at main ends refer SEQ-WAT-1302-1.		NOT ACCEPTED BY SP				
547			Ant Barrier devices for Hydrants	No WSA PS Compliance with AS/NZA 4020			Hydrant Protection		Hydraguard			Use is subject to acceptance by SP	Use is subject to acceptance by SP
548				Retroguard						Use is subject to acceptance by SP			
549	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		
550	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		
551			Viadux										
552			Betta / Clover Pipelines	Betta									
553			Crevet										
554	Valve box & cover C.I. or D.I.	No WSA PS 1 - Refer details on SEQ Code Standard Drawings SEQ-WAT-1305-1 and SEQ-WAT-1306-1	NIBF / Iplex			Class D cover Bitumen coated to AS 3750.4	Water Service ferrule Boxes for footpath are Viadux MFNSW-PTHBX or approved equivalent and for roadway are Viadux MVGQ or approved equivalent as per Item 41 of 11-133 and as shown on 11-134 of CoGC metering standard drawings.  Lids colour e.g. white are preferred to be painted in factory						
555			Gatic / Iplex										
556			Civilmart										
557			Viadux										
558			Hygrade Water	Hygrade Water								Use is subject to acceptance by SP	Only Class D accepted
559			Daemco										
560			Civil Pipes	Civil Pipes			Use is subject to acceptance by SP					Use is subject to acceptance by SP	
561	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						
562			NIBF / Iplex										
563			Civilmart										
564			Viadux										
565			Hygrade Water	Hygrade Water								Use is subject to acceptance by SP	Only Class D accepted
566			Daemco										
567			Civil Pipes	Civil Pipes			Use is subject to acceptance by SP					Use is subject to acceptance by SP	

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	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
568	Valve & hydrant boxes (recycled plastics) & DI Covers	<b>No WSA PS</b> 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	
569			Replas / Crevet									
570			Replas / Vinidex									
571			Replas / Civil Pipes									
572	Valve & hydrant boxes (composite) & DI Covers	<b>No WSA PS</b> 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	
573			Daemco	Daemco								
574	Valve extension spindles	<b>262</b> 4.1 - DN100 to DN525/600 4.2 - Length by Design 4.3 - Valve extension spindles shall be coated with a polymeric coating to AS 4158 with 350 µm DFT (minimum), or Valve extension spindles shall be hot-dip galvanized in accordance with AS 4680, or Valve extension spindles shall be injection moulded high strength, high stiffness glass fibre reinforced thermoplastic in accordance with the relevant sections of AS/NZS 2638.2:2011. 4.4 - Spindle support with bearing at 1 per installation minimum and at 1.8 m max spacings for pit installation	Viadux		AS2638 Compliant		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
575			NIBF / Iplex									
576			Forge Bros / Vinidex									
577			Challenger									
578			Daemco									
579			ANT Infrastructure Technologies	ANT	Up to DN300			Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use is subject to acceptance by SP	
580	Steel fittings – bends, tees and reducers	<b>204</b> 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		
581			Pipe Lining and Coating	Fusionkote	OD168 - 3624							
582	Stainless Steel Fittings	<b>No WSA PS</b> 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	Use is subject to acceptance by SP		
583	Flanges MS	<b>204 - Flanges</b> 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						
584			NIBF / Iplex									
585	Flange gaskets and 'O' rings	<b>312</b> 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									
586	Bolts	<b>No WSA PS</b> 1 - Refer details on SEQ-WAT-1313-1				316 Stainless steel bolts						
587	PE mechanical compression fittings for reduced size water mains	<b>208</b> DN63 2.(a) - AS/NZS4129 or EN 1254 acceptable Certification 4.1 - PN16 minimum 4.2 - Mechanical Polyethylene, Polypropylene or Copper Alloy both with approved Plastic grippers/olives/thimbles 4.3.1 - Transition - PE to Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4.3.2 - Coupling - PE to PE 4.4 - Flange not used 4.5 - SBR & EPDM	George Fischer		DN63	Metal male fittings connecting to plastic female fittings is not accepted	Use is subject to acceptance by SP		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
588			Philmac / Philmac & Vinidex									
589			Plasson									
590			Talbot									
591			Alprene									
592			Iplex				Use is subject to acceptance by SP					
593			Viadux									
594			Hydroflow / SAB S.p.A	SAB Black Nut Blueseal								
595			Viega	Geopress K								
596			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		

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						October 2021	ACCEPTED CIVIL PRODUCTS AND MATERIALS						
	A	B	C	D	E	F	G	H	I	J	K		
	Product	WSAA Product Specification No. with Service Provider Specific Requirements (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													
597	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 subject to acceptance by SP	Accepted for DN63 and DN110	Hydrant saddles shall only be installed as an under pressure cut-in connection			
598			Georg Fischer	ELGEF Plus Draw - Lock									
599			Friatec / Vinindex	Frialen	Up to DN630								
600			Agru	Agru	Up to DN630		Long spigot fittings only accepted. Accepted where PE pipes are approved to be used			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		
601			Fusion Group / FusionPlast	Fusamatic	Up to DN630								
602			NUPIGECO	Elofit	DN20 to DN710								
603			Hydroflow / Plastitalia S.p.A	PLAST	Up to DN630		Accepted where PE pipes are approved to be used		Use is subject to acceptance by SP	Hydrant saddles shall only be installed as an under pressure cut-in connection			
604			Advanced Piping Systems / Plastitalia S.p.A	PLAS	Up to DN630								
605			Mako	Mako	Up to DN630								
606			Simona / Plasson	Simona	Up to DN500		Use is subject to acceptance by SP		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Only butt welded spigot fittings accepted Seamless sweep bends not accepted. Hydrant saddles shall only be installed as an under pressure cut-in connection	Only butt welded spigot fittings accepted Seamless sweep bends not accepted	
607			David Moss Corporation	DAMOS	Up to DN1000								
608			Fusion QLD	Flo Right	Up to DN450								
			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		
609													
610	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			
611	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	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP			
612			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		
613	Copper compression fittings	No WSA PS	Viega	Propress	DN15-DN100		Use is subject to acceptance by SP		Use is subject to acceptance by SP	Only accepted when connecting a new copper pipe to an existing copper water service	Use is subject to acceptance by SP		
614			MM Kembla	KemPress				Accepted up to DN 25		Use is subject to acceptance by SP			
615	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	Use is subject to acceptance by SP	NOT ACCEPTED BY SP			
616			Plasson		DN80 / DN100	DN90 riser with slotted flanges suit both DN80 & DN100 flanged hydrants					Use of stub flanges is subject to acceptance by SP		
617			Iplex		Up to DN355	Full face full bore connections							
618			Friatec / Vinindex	Frialen	Up to DN180	Metal insert in the flange, backing rings not required	Accepted where PE pipes are approved to be used  Only DN125 – DN355 accepted			Use is subject to acceptance by SP	Use is subject to acceptance by SP		
619			Fusion Group / FusionPlast	Fusamatic	DN90 to DN 450								
620			David Moss Corporation	DAMOS	Up to DN355		Use is subject to acceptance by SP						
621		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 / Vinindex	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		
622	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	Vinindex / Rodney			Comply with AS4129	Accepted where PE pipes are approved to be used	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP				
623			Kingston Bridge / Iplex										
624	Air valves	265	ARI Flow control		DN20-DN200	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			
625			Bermad										
626			Vent-O-Mat										
627			AVFI	DAV-MH				NOT ACCEPTED BY SP	Use is subject to acceptance by SP				
628			ISCO	Vent Master PX									

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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	
629	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		Use is subject to acceptance by SP		NOT ACCEPTED BY SP	
630			Dobbie Dico	Dobbie Dico	DN80-DN900		Accepted to be used for large meter assemblies where a non-return valve is required as per council's meter standard drawings.					
631			AVK	AVK Swing Check Valve 41/25	DN50							
632			AVK	AVK Swing Check Valve 41/8X	DN80-DN300							
633			Challenger Valves	Challenger - RSSC	DN80-DN375		NOT ACCEPTED BY SP					Use is subject to acceptance by SP
634	AVFI Pty Ltd	AVFI - RSSC	DN50-DN300									
635	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		
636			Dobbie Dico	Dobbie Dico	DN80-DN900							
637			AVK	AVK Swing Check Valve 41/25	DN50							
638			AVK	AVK Swing Check Valve 41/8X	DN80-DN300							
639			Challenger Valves	Challenger - RSSC	DN80-DN375					Use is subject to acceptance by SP		
640			AVFI Pty Ltd	AVFI - RSFC	DN50-DN300					NOT ACCEPTED BY SP		
641	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).	
642			Singer / HMA Valveco	Singer								
643			Plasson Australia Pty Ltd	Plasson C-Valve								
644			Dorot Australia Pty Ltd	Dorot 300 Series								
645			Cla-Val Pacific / Challenger	Cla-Val								DN25-DN1200
646	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	
647			Singer / HMA Valveco	Singer								
648			Dorot Australia Pty Ltd	Dorot 300 Series	DN25-DN1200 (Sustaining)							
649			Cla-Val Pacific / Challenger	Cla-Val	DN-80-DN1200 (Altitude)							
650	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			
651			Plasson	Flex Restraint	DN180 – DN1600							
652	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	
653	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	Use is subject to acceptance by SP	Uni-flange to be used within pit or aboveground locations only	
654			Viking Johnson				Dismantling joints shall be restrained type only and for Meter Assemblies only. Use of uni-flange is subject to acceptance of SP.					
655			Valveco	Uni-Flange Adaptor	DN50-DN500		Uni-flanges shall be for meter assemblies only					
656			Hygrade Water	Pipemate	DN80-DN900		For Meter Assemblies only, restrained type only					
657			AVFI	AFD10 Series	DN80-DN1200		For Mains only, restrained type only					
658			AVFI	AFD20 Series	DN80-DN1200		For Meter Assemblies only, restrained type only					For Meter Assemblies only, restrained type only
659			Flowmeter - Network Meter	No WSAA PS 4.1 - Flange to AS4087 Figure 5 4.2 - PN16	ABB		ABB					
660	Siemens	Siemens					NOT ACCEPTED BY SP	Use is subject to acceptance by SP				
661	E & H	E & H					E & H Promag W400	NOT ACCEPTED BY SP				
662	Emerson	Emerson				Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP				

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1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.4 July 2021)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater					
663	Category: WATER SERVICES															
664	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			SP USE ONLY	RMC tapping band also accepted on AC pipe	SP USE ONLY					
665			Gatic / Milne													
666			RMC													
667			Clover	Clover	DN100-300 Type F for PVC (S2 only) and AC pipes				Use is subject to acceptance by SP	Use is subject to acceptance by SP						
668			Hydroflow	P & I	DN100-200 Type F for PVC (S1&2) and AC pipes				Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP					
669			4N Products & Stockbrands	4N	DN100, 150, 200	Positive stops, coloured blue	NOT ACCEPTED BY SP		SP USE ONLY	RMC tapping band also accepted on AC pipe	SP USE ONLY					
670	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		NOT ACCEPTED BY SP					
671			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										
672			Hawle / Hygrade Water	Haku	DN63 - DN315	Ductile iron lower half	Accepted where PE pipes are approved to be used	Use is subject to acceptance by SP			NOT ACCEPTED BY SP	NOT ACCEPTED BY SP				
673			Hawle / Hygrade Water	Haku	DN280 - DN500	Stainless steel strap lower half. For min PN16 (SDR11) pipes										
674			Derwent	Uniclamp	DN125 and DN180	Only for where E-F saddles are not practical										
675	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	Use is subject to acceptance by SP	Use is subject to acceptance by SP							
676	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.	SP USE ONLY	Accepted for DN63 and DN110							
677			George Fischer													
678			Friatec / Vinidex	Frialen	Up to DN355		Use is subject to acceptance by SP			Flanged saddles are not accepted by SP	Flanged saddles are not accepted by SP					
679			Fusion Group / FusionPlast	Fusamatic			Accepted where PE pipes are approved to be used			Use is subject to acceptance by SP	Use is subject to acceptance by SP					
680			Hydroflow	Plastitalia	Up to DN315		Use is subject to acceptance by SP			Use is subject to acceptance by SP	Use is subject to acceptance by SP					
681	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	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use is subject to acceptance by SP					
682	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							
683			Elster													
684			RMC													
685	Ball valves - Water Service	274 4.1 - PN16 minimum 4.2 - Plastic not permitted, Body and Handle to be DR copper alloy 4.3 - By accepted product 4.4 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 or PE Compression 4.5 - 90 Degree closure with minimum 50 mm handle (from handle tip to shaft spline centre). 4.6 - Water Supply Property Service	All Valve	Airaga	DN20 & DN25	Dezincification resistant material and comply with AS/NZS 3688	Both M/F thread and PE compression joints are accepted	F/F Ball valves with BSP thread only accepted  Accepted for DN20 and DN25 at meter end of services. Ball valves must be lockable in both on and off position.	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Ball valves must be capable of being locked by the customer with their own padlock.					
686			Elson	Elson			Use is subject to acceptance by SP									
687			Gatic / Milne				M/F thread joints only accepted									
688			Elster													
689			RMC				Both M/F thread and PE compression joints are accepted									
690			Zetco TOF				NOT ACCEPTED BY SP		Accepted for DN20 & DN25							
691			Strongcast	Strongcast								M/F thread joints only accepted				
692			Austworld	LOGI VALVE			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. Accepted product codes are WB20FBL, WB25FBL									
693			Galvin Engineering	Galvin Engineering			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Not accepted for water services which must be lockable. Accepted in other situations.						
694	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							
695			Elster													
696			RMC													
697	Slip Coupling	No WSA PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3565.1, AS 3718 and AS 3688. 2 - PN 16 3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4 - Watermark acceptance 5 - Coupling to have 5mm to 20mm movement with locking nut	Elster		DN20 and DN25	Dezincification resistant material and comply with AS/NZS 3688.	DN25 only is accepted	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP					
698			RMC			Shall have a locking nut and a metallic stopper to prevent moving apart or kinking between the moving parts	NOT ACCEPTED BY SP									
699			Austworld				Both configurations of individual and combined with ball valves are accepted									

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE

October 2021

ACCEPTED CIVIL PRODUCTS AND MATERIALS

	A	B	C	D	E	F	G	H	I	J	K		
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (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		
700	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				Push fitting not accepted by SP			
701			Georg Fischer										
702			Friatec / Vinidex					Use is subject to acceptance by SP			Use is subject to acceptance by SP		
703			Viega	Geopress K			Up to DN63	Use is subject to acceptance by SP					
704	PE mechanical compression fittings for Small Diameter Water Service pipes	208 or 247 DN25 to DN63 2 (a) - AS/NZS4129, EN1254 or equivalent acceptable Certification 4.1 - PN16 minimum 4.2 - Mechanical Polyethylene, Polypropylene or Copper Alloy both with approved Plastic grippers/olives/thimbles 4.3.1 - Transition - PE to Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4.3.2 - Coupling - PE to PE 4.4 - Flange not used 4.5 - SBR & EPDM	George Fischer		DN25 to DN63	PE to PE or PE to BSP.  Push fit type is not accepted.  Metal male fittings connecting to plastic female fittings is not accepted.	Use is subject to acceptance by SP		Use is subject to acceptance by SP	Talbot fittings not accepted. Push type fittings only accepted with the approval of Unitywater.			
705			Philmac / Philmac & Vinidex										
706			Plasson		DN25								
707			Elster	TITA				Only fittings with a Copper Alloy body and a Copper Alloy compression nut are approved for use					
708			Zetco TOF				DN25-DN63						
709			Talbot										
710			Alprene										
711			Iplex					Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use is subject to acceptance by SP		
712			Viadux		Elopress								
713			NUPIGECO										
714			Austworld	LOGI CIVIL			DN25 & DN 32				PE pipe stand use is subject to acceptance by SP	PE pipe stands not accepted by SP	
715			Hydroflow / SAB S.p.A	SAB Black Nut Blueseal			DN25 to DN63		Use is subject to acceptance by SP				
716			Viega	Geopress K	DN25 - DN63						Use is subject to acceptance by SP		
717			Strongcast	Strongcast	DN25 & DN32			Only fittings with a copper alloy body and a copper alloy compression nut are accepted for use				Use is subject to acceptance by SP	
718	Meters - 20 mm (direct and sub-metering applications)	No WSA PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer 4 - Std Tail Nut with gasket 5 - Colour and Check Valve requirements as per SEQ-SP requirements	Elster / 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		Only accepted for above ground installation	NOT ACCEPTED BY SP		
719			Elster / Honeywell	V200			Use is subject to acceptance by SP						
720			Itron	TD8			Horizontal and Vertical orientation						
721			RMC	WM273MRP multijet			Horizontal orientation only. Not permitted to be used for Hard Wired AMR systems utilising Reed Switches. Not to be used for sub-meters.		Use is subject to acceptance by SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
722			RMC	WM281MRP multijet				NOT ACCEPTED BY SP					
723			GVT	TPWM				NOT ACCEPTED BY SP			NOT ACCEPTED BY SP		
724	Meters - 25 mm (direct and sub-metering applications)	No WSA PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer 4 - Std Tail Nut with gasket 5 - Colour and Check Valve requirements as per SEQ-SP requirements	Elster / Honeywell	V100 (PSM-T) (WM252PD)		Purple body for non-drinking water  Accuracy Class 2  Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Horizontal and Vertical orientation	NOT ACCEPTED BY SP		Only accepted for above ground installation	NOT ACCEPTED BY SP		
725			Elster / Honeywell	V200			Use is subject to acceptance by SP						
726			Itron	TD8			Horizontal and Vertical orientation						
727			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.		Use is subject to acceptance by SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
728	Meters - 32 mm (direct and sub-metering applications)	No WSA PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer 4 - Std Thread for attachment of a AS3565.1 Clause 2.6 (DR) Copper Alloy Oval Flange with two Bolts 5 - Colour and Check Valve requirements as per SEQ-SP requirements	Elster / Honeywell	V100 (PSM-T)		Purple body for non-drinking water  Accuracy Class 2  Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy		NOT ACCEPTED BY SP			NOT ACCEPTED BY SP		
729			Elster / Honeywell	V200			NOT ACCEPTED BY SP						
730			Itron	TD8					Use is subject to acceptance by SP		Testable backflow prevention device required		
731			RMC	MRP						NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
732	Meters - 40 mm (direct and sub-metering applications)	No WSA PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer 4 - Std Thread for attachment of a AS3565.1 Clause 2.6 (DR) Copper Alloy Oval Flange with two Bolts 5 - Colour and Check Valve requirements as per SEQ-SP requirements	Elster / Honeywell	V100 (PSM-T)		Purple body for non-drinking water  Accuracy Class 2  Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Horizontal and Vertical orientation	NOT ACCEPTED BY SP		NOT ACCEPTED BY SP	Testable backflow prevention device required		
733			Elster / Honeywell	V200			Use is subject to acceptance by SP		Use is subject to acceptance by SP		Testable backflow prevention device required		
734			Itron	Flostar M			Horizontal orientation only	NOT ACCEPTED BY SP			Testable backflow prevention device required		
735			RMC	WM400 / V100 (PSM-T)			Horizontal and Vertical orientation				Use is subject to acceptance by SP		
736	Meters - 50 mm and larger (direct and sub-metering applications)	No WSA PS 1 - AS 3565.1 Certified 2 - Std integral Round Flange as per AS3565.1 Clause 2.5 to AS4087 Figure B5 with four Bolts 3 - Colour and Check Valve requirements as per SEQ-SP requirements	Elster / Honeywell	H4000 Woltmann		Purple body for non-drinking water  Accuracy Class 2  Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Horizontal and Vertical orientation	Shall be capable of providing pulse output	Use is subject to acceptance by SP	NOT ACCEPTED BY SP			
737			Elster / Honeywell	H5000			Use is subject to acceptance by SP	Use is subject to acceptance by SP					
738			Arad / RMC	Woltman Silver Turbo			Horizontal orientation only	Shall be capable of providing pulse output					
739			Itron	Flostar M			Up to DN150						
740			Itron	Woltex			Use is subject to acceptance by SP	Use is subject to acceptance by SP			Above ground installation with external top accessible (basket type) inline strainers NOT ACCEPTED BY SP		
741			Sensus	Meistream							Only accept Meistream Plus meter installed above ground with external top accessible (basket type) inline strainers		
742													
743	Inline Strainer	No WSA PS	Elster	Kent H4010 Strainer	Up to DN150	PN16  FI-FI  Top entry basket Type		Use is subject to acceptance by SP	Use is subject to acceptance by SP				
744			RMC		Up to DN150								
745			Hydromet		Up to DN200		Use is subject to acceptance by SP				Only Flat-top accepted		
746			Virginia Metals		Up to DN200								
747	Y Strainer	No WSA PS	Emerson	VALVCHEQ	DN65 - DN300	PN16  Fusion bonded epoxy coated ductile iron	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		
748			AVFI	AS105F Cast Iron Y Strainer	DN50 – DN300		Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use is subject to acceptance by SP Ductile Iron is preferred			

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						October 2021	ACCEPTED CIVIL PRODUCTS AND MATERIALS									
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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																
748	Flowmeters	No WSA PS 1 - Flange to AS4087 Figure 5 2 - PN16	Arad Ultrasonica / RMC	Octave		Purple body for non-drinking water.  Accuracy Class 1 or Class 2.  Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Accepted are: 1: Arad Octave Ultrasonic, Accuracy Class 2 R=500, either DI or SS body, Horizontal and Vertical orientation.  2: Siemens Sitrans FM Mag 8000, Accuracy Class 2 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	Approved for fire system metering only. Only Stainless Steel bodied meters accepted.	Use is subject to acceptance by SP					
749			Siemens Eletromagnetic	Siemens Mag 8000 Advanced							Use is subject to acceptance by SP					
750			Siemens Ultrasonic	Siemens						NOT ACCEPTED BY SP	Use is subject to acceptance by SP					
751			E & H Electromagnetic	E & H Promag W400							NOT ACCEPTED BY SP					
752			E & H Ultrasonic	E & H					Use is subject to acceptance by SP							
753			Emerson	Emerson					Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP					
754			ABB	WaterMaster AquaMaster						NOT ACCEPTED BY SP						
755	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		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Hard-wired systems only. Only Elster Reed Switches to be used. One DER (digital electronic read outs) panel per building. Min 12 months combined products & Installation warranty	Use is subject to acceptance by SP		NOT ACCEPTED BY SP	Only Reed switches from the meter manufacturer and repeaters supplied from the AMR supplier are accepted					
756			Epitomy	Epitomy								NOT ACCEPTED BY SP				
757			Utility Technology	Utility Technology												
758			Halytech	Spider								NOT ACCEPTED BY SP				
759			Ausmeter	Ausmeter			Use is subject to acceptance by SP			Use is subject to acceptance by SP		NOT ACCEPTED BY SP	NOT ACCEPTED BY SP			
760			Itron	Everblu												
761	SUMS	Vivid Multi Logger														
762	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, Black or Green meter box lids	Blue Lid not permitted.  DN40 long boxes for all new and/or retrofitting are the Viscount (Linpac) P7 pit collars with a "METER BOX" permanent label on an aluminium lid or approved equivalent;  DN40 short boxes for retrofitting only are the Dura 15"x21"x12" valve box with a "METER BOX" permanent label on lid or approved equivalent	Blue Lid not permitted (SP use only)	Blue Lid not permitted	NOT ACCEPTED BY SP	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.					
763			Everhard Industries		492L * 271W * 316D							DN40 long boxes for all new and/or retrofitting are the Viscount (Linpac) P7 pit collars with a "METER BOX" permanent label on an aluminium lid or approved equivalent; DN40 short boxes for retrofitting only are the Dura 15"x21"x12" valve box with a "METER BOX" permanent label on lid or approved equivalent				
764			Draper		440L * 275W * 280D											
765			Strongcast		427L * 267W * 316D					Blue Lid not permitted Use is subject to acceptance by SP						
766			All Valve Industries	AVMB	445L * 288W * 320D					Usie is subject to acceptance by SP		Usie is subject to acceptance by SP	Usie is subject to acceptance by SP			
767	Meter boxes – Class C	No WSA PS 1 - Lid in Box at Class C to AS 39963 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/SLCLDMED	413L * 253W* 316 D		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP					
768	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						
769	Double check valve (DCV), Double check detector assembly (DCDA)	No WSA PS 1 - Certified to AS/NZS 2845	Emerson	VALVCHEQ	DN40, 50, 100 & 150		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP					
770			Bermad	Cla-Val												
771			Hydroflow Distributors	Watts							Use is subject to acceptance by SP					
772	Pre-assembled dual meter boxes	No WSA PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Elster		DN20	Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Use is subject to acceptance by SP  May only be used for dual water supply systems	NOT ACCEPTED BY SP	Install approved pre-assembled boxes as per SP requirements	NOT ACCEPTED BY SP	Use is subject to acceptance by SP					
773			RMC	KIT235 WMKIT235		All components shall be approved fittings No Slip couplings	Install pre-assembled dual boxes as per SEQ-NDW-2303-1 and 2304-1		Use is subject to acceptance by SP							
774	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	Install approved pre-assembled boxes as per SEQ-WAT-1110 set	Install approved pre-assembled boxes as per SP requirements		Use is subject to acceptance by SP					
775			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									
776			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	Install approved pre-assembled boxes as per SEQ-WAT-1110 set		NOT ACCEPTED BY SP						
777			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.			NOT ACCEPTED BY SP						
778			Strongcast	SCMB-2BSP	DN25		Use is subject to acceptance by SP	Accepted without meter for submetering application only. A blank perforated bridging piece in place of the water meter. Not accepted for residential subdivision.	Use is subject to acceptance by SP							
779			Strongcast	SCMB18SP32	DN32											

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787	Sub-meter assemblies - wall mount brackets	No WSA PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Elster	46492-00	DN25	Drinking or Non-drinking  Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy  For wall bracket assemblies the wall bracket shall be stainless steel rigid type	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	
788			Austworld	SMK06			Use is subject to acceptance by SP			NOT ACCEPTED BY SP	Use is subject to acceptance by SP	
789				SMK07 with Telescopic slip coupling								
790			Strongcast	SCMLIM25Q	DN32		NOT ACCEPTED BY SP					
791			Strongcast	SCMLIM32Q								
792	Dual Check valves for Meter assemblies DN40 and Larger	No WSA PS 1 - Certified to AS/NZS 2845.1 2 - Non-Testable 3 - PN16 and Flanged to AS4087 Figure B5 4 - Ductile Iron body with AS4158 coating and lining or SS316 body or SS304 body if SS316 unavailable	Emerson	VALVCHEQ		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Alternatively figure DC03 double check valves are acceptable	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
793			Hydroflow Distributors	Watts			Use is subject to acceptance by SP			Use is subject to acceptance by SP	Use is subject to acceptance by SP	
794	Reduced pressure zone device (RPZD), Reduced pressure detector assembly (RPDA)	No WSA PS 1 - Certified to AS/NZS 2845	LWG Zurn	Model 375						Any brand with ISO Type 5 product certification to AS2845 is accepted	UW prefers RP03 RPZ	
795			RMC									Use is subject to acceptance by SP
796			Emerson / ValvCheQ	RP03								
797			Hydroflow Distributors	Watts								
798	Pressure Limiting Valve for Water Services	No WSA PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS 3688. 2 - PN 16 3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4 - Watermark acceptance 5 - Set point 50 m	RMC		DN15 – DN50	Stainless Steel seat.  Not buried.	Not used - Private Plumbing facility	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Not used - Private Plumbing facility		
799			NEFA									
800			Hydroflow Distributors	Watts						Use is subject to acceptance by SP		
801	Constant flow control device	No WSAA PS 1 - PN16 minimum 2 - Watermark certification 2 - DR Brass Body material 3 - Screwed BSP fitting type- 4 - Flow rate as agreed by SP 5 - Life expectancy > 20 years	Maric Flow Control	Maric Screwed Valve - BSP	20mm	Device shall be installed for water property service supplied by an existing trickle feed system.  Device shall connect to meter coupling on the upstream side of meter, within the meter box.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						October 2021	ACCEPTED CIVIL PRODUCTS AND MATERIALS				
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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
802	Category: WATER SUPPLY MISCELLANEOUS ITEMS										
803	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								
804			Tapex								
805			LWG Zurn								
806			Rain Harvesting	421			Use is subject to acceptance by SP				
807			Wenac					Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
808	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					
809	Loose PE sleeving to DI pipe	320	Viadux	BLUEBOSS blue		Mandatory sleeving to all DI pipe unless DI pipe manufacturer supplier can guarantee it is not needed following comprehensive soil testing and risk assessment. Colours are Blue for Drinking Water and Purple for Non Drinking Water to POP203					
810			Crevet								
811	PVC - M conduits	209 4.1 - PN12 minimum 4.2 - Water Service Conduit 4.3 - Series 1 SCJ 4.4 - White for Water Conduit 4.5 - SCJ only	Iplex	Hydro S1		Minimum PN12 Series 1	CoGC also accepts uPVC series 1 PN12 as per SEQ-WAT-1106-1	LCC also accepts 100 dia uPVC PN9 Series 1			UW requires uPVC PN9 series 1 with solvent weld joint- Refer drawing SEQ-WAT-1108-1.
812			Vinidex								
813			Viadux								
814			Pipemakers								
815	Embedment material - crushed rock	351 4.1 - Single sized. 4.2 - Nominal 5 or 7 mm									
816	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
817	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 is subject to acceptance by SP Service pipe use mandatory	Main pipe use is subject to acceptance by SP Service pipe use mandatory		
818	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					
819	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.
820	Casing Spacers	324 4.1 - Carrier pipes OD from 100mm to 1668mm 4.2 - As per design 4.3 - Minimum ID as per Standard Drawings 4.4 - Annular space shall be grouted unless directed otherwise by SP 4.5 - Min space between carrier pipes and encasing pipes 50mm	HDX Series		Runner height of 38, 65, 90 and 125 mm	For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes					
821			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 of SP	Use is subject to acceptance of SP	Use is subject to acceptance of SP	Use is subject to acceptance of SP	
822	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					
823	Kerb Markers	248 4.1 - SS, Copper Alloy 4.2 - H, F, AV, SV, SH, VB, V, SC, HL, ML, LL, WM 4.3 - Circular 4.4 - 19mm 4.5 - 40mm diameter				As per SEQ-WAT-1300-1					Only Brass markers accepted
824	Camlock	No WSA PS				S/Steel 316					Maximum DN100

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825	Valve pit access cover and frame	290 4.1 - 600 × 900 mm (Min.) 4.2 - Solid top, Sealed Type 4.3 - 600 x 900 mm Clear Opening (Min.) 4.4 - Class B for non-trafficable areas.and Class D for trafficable areas 4.5 - Lifting Key as per Standard Drawings 4.6 - Markings to AS3996 Clause 1.6 (a) to (f). 4.7 - Hinged (Unitywater requires non-hinged access cover) 4.8 - Standard Packaging and Delivery 4.9 - As per Standards 4.10- Standard Coating 4.11 - Bolt down requirement by design 4.12 - Weatherproof (sealed) Aluminum 4.13 - Rocking of cover in frame not permitted	McBerns (Aluminium)			Refer Standard Drawings SEQ-WAT-1307-3, SEQ-WAT-1308-1 and SEQ-WAT-1310-4	Use is subject to acceptance by SP	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			
826			Gatic											
827			Civilmart											
828			Webforge											
829			Hygrade											
830			EJ											
831			Durham											
832			Ducast											
833			Mass Products											
834	Valve pit lightweight polymeric lids and frames (non-corrosive)	292 4.1-600 × 900 mm (Min.) 4.2-600 by 900 mm Clear Opening (Min.) 4.3-Standard Lifting Key 4.4-Markings to AS3996 Clause 1.6 (a) to (f) 4.5-Standard packaging 4.6-No specific markings required 4.7 - Bolt down requirement by design 4.8 - Class B for non-trafficable areas and Class D for trafficable areas	Prime Composites		Refer Standard Drawings SEQ-WAT-1307-3, SEQ-WAT-1308-1 and SEQ-WAT-1310-4	Use is subject to acceptance by SP	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				
835			EJ											
836			Terra Firma											
837			ACO SAKU											
838	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	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP	Use is subject to acceptance by SP (minimum 2.0 mm thickness)			
839	Category: EMERGENCY STORAGE CHAMBERS													
840	Emergency Storage Chamber	402 2.(a) - WSA 129:2011 (or equivalent) 4.1 to 4.4 - Requirements to be specified by SEQ-SP on a case-by-case basis.	Envirotank Pty Ltd	Envirotank - Water/Wastewater Tank	From 4.8 m x 1.2 m dia. (5kl) to 16.4 m x 3.0 m dia. (110kl)	Fibreglass construction As per SEQ-SPS-1402-1	Use Accepted - 30 Year Warranty	Use Accepted - 30 Year Warranty	Use Accepted - 30 Year Warranty	Use is subject to acceptance by SP	Use Accepted - 30 Year Warranty			
841			Rocla	Concrete Detention System	Conc. Box units (2.4 m modules) Conc. Pipe units (2.44 m modules)	Reinforced Concrete - Sacrificial layer or Plastilined As per SEQ-SPS-1402-1	CoGC accepts only PE lined Pipe	LCC accepts only PE lined Pipe	RCC accepts only PE lined Pipe		UW accepts only PE lined Pipe			
842			Humes											
843			Rocla	Plastic Detention System 'Plastream'	1.5 m to 2.25 m dia (10kl to 250kl)	PE spirally wound steel-reinforced pipe As per SEQ-SPS-1402-1	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP			
844			Chemstore Group	Hydrosave	From 1.2 m to 3.5 m dia and 2.5 m to 20 m length	Fibreglass construction As per SEQ-SPS-1402-1					Use 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
845			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								
846			Tank Solutions	Mullaly	1470mm to 3275mm in diameter 3.3m to 15m in length	Fibreglass construction As per SEQ-SPS-1402-1		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP			
847			Polynex	Polynex	From 600mm to 3000mm in diameter	Double walled HDPE As per SEQ-SPS-1402-1	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use Accepted - Minimum 20 year warranty		