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Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
1	<p>Notes:                      WSAA Product Specifications are available at <a href="https://www.wsaa.asn.au/shop/category/11">https://www.wsaa.asn.au/shop/category/11</a>. Section 4 of the WSAA Product Specifications is for "Agency or Project Specific Requirements". The SEQ requirements are specified below.                      Manufacturer/Supplier Products may be sourced from alternative Suppliers than those listed provided that the products are manufactured by a Manufacturer whose name, and the products' trade name, appear on the list.                      Size Range Size ranges need to be read in conjunction with the relevant clauses of the SEQ versions of the WSAA Codes (e.g. Water Supply Code Clause 3.1.1; Sewerage Code Clause 10.6; Pressure Sewerage Code Clause 4.5.3.1; etc.)                      Blank Cells in the five columns under the service provider's names cells that are blank indicate that the product listed on that row are acceptable to the service provider.                      'Use is subject to acceptance by SP' Contact the service provider to determine if the use of this product is acceptable in the proposed circumstance.                      'Acceptance yet to be determined' Contact the service provider to determine if the use of this product is acceptable in the proposed circumstance.                      'Considered on case by case basis' Contact the service provider to determine if the use of this product is acceptable in the proposed circumstance.                      'SP USE ONLY' These products are approved for use by SEQ-SPs or their contractors only for maintenance/retrofitting purposes.                      'Flange' All flanges used for pressure systems shall be PN16 complying with AS4087 Fig B5 unless otherwise specified.</p>										
2	<b>Category: SEWERAGE PIPES AND FITTINGS - NON PRESSURE</b>										
3	PVC-U Pipe And Fittings - DWV System	<b>230</b> 4.1 - Plain Wall 4.2 - Elastomeric Seal 4.3 - Stiffness as per 230.2.(c) or as required by SP 4.4 - SBR & EPDM 4.5 - Heavy Duty fittings accepted	Iplex	DWV PIPE	DN100, 150, 225, 300, 375	Plain wall only accepted	DN100 at SN10 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum	DN100 at SN10 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum For sewer deeper than 3m, supporting documentation shall be submitted by RPEQ to demonstrate the selected pipe material is appropriate for the purpose and complies with the AS2566.	Use is subject to acceptance by SP	DN100 at SN10 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum	Use is subject to acceptance by SP
Vinidex			DWV SEWER								
Viadux			D-FLO								
Micron Pipelines			Micron Pipelines	DN100 to DN300							
Pipemakers			Pipemakers								
4	PVC-U Pressure Pipe Sewer Using Standard DWV Junctions	<b>211</b> 4.1 - PN12 4.2 - Deep Sewers or Minimum Cover 4.3 - Standard Packaging & Delivery 4.4 - Series 1 4.5 - SBR & EPDM	Iplex	Restrain DWV	DN150, 225, 300, 375	For use in trenchless applications only. Not suitable for pneumatic, concussive, pipe ramming or impact moling trenchless installation methods.	Use is subject to acceptance by SP	Considered on case by case basis	Considered on case by case basis	Considered on case by case basis	DN100 at SN10, DN150 and larger at SN8 and Fittings at SN8 minimum for use in trenchless applications only
Vinidex				DN150, 225, 300	Use is subject to acceptance by SP	Considered on case by case basis	Considered on case by case basis	NOT ACCEPTED BY SP	Mandatory for sewers deeper than 3 metres and for sewers with minimum cover. All details to be confirmed with SP		
Viadux					Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined				
Pipemakers											
5	DI Pipe	<b>202S</b> 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 <b>200</b> 4.1 - PN20 4.2 - Seal coating not required for sewage 4.3 - Polyurethane lining 4.4 - Zinc/Bitumen coating or Polyurethane coating 4.5 - Restrained Joints on Zinc/Bitumen coated pipe 4.6 - SBR, EPDM or NBR 4.7 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.8 - PE sleeving is required on all DI pipes unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment <b>200 and WSAA TN6</b> 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	VonRoll / Reece	Ducpur / Ecopur	DN80 to DN700 (ISO Sizes)	Min 900 micron Polyurethane external coating Min 1300 micron Polyurethane internal lining	Detector Tape for ISO Pipe spirally wound along pipe and over PE sleeve.	Considered on case by case basis	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	
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		
Jindal SAW / Iplex			Jindal SAW	DN100 to DN750	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				
Viadux			DIMAX / TYTON XCEED Z+	DN100 to DN750	Min 1300 micron Polyurethane internal						
Viadux			DIMAX / TYTONXTREME Z+	DN100 to DN750							
6	Steel Pipe	<b>203</b> 4.1 - By design and PN16 min 4.2 - SEQ Code nominal DN's 4.3 - Seal coat not required for sewage	Jindal SAW / Iplex	Ironitite	DN100 to DN750	CAC cement lining	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Considered on case by case basis	Accepted in applications where DI pipe is specified e.g. building over sewer applications	NOT ACCEPTED BY SP
Saint-Gobain			PAM / Integral Zinalium	DN100 to DN750							
Vinidex			ZAP-HAC	DN100 to DN750							
Steel Mains			Sintapipe		Coating to be fusion bonded Polyethylene minimum	Accepted OD610 or Larger	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP		
Pipe Lining and Coating			Fusionkote	OD168 to OD3624	Lining to be fusion bonded polyethylene						
7	Steel Fittings To 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 - Seal coat not required for sewage 4.5 - As per SP requirement 4.6 - Joint requirements by design 4.7 - Cathodic Protection by design 4.8 - Fusion bonded polyethylene lining 4.9 - Zinc metal spray as per the specification 4.10 - SBR & EPDM 4.11 - Fusion bonded polyethylene coating minimum	Steel Mains	Sintakote	OD114 to OD2500			Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	
Pipe Lining and Coating			Fusionkote	OD168 to OD3624							
Vinidex			SewerPRO	DN150 to DN900					Supporting documentation shall be submitted by RPEQ to demonstrate the selected pipe material is appropriate for the purpose and complies with the AS2566		
Iplex			SewerMAX	DN225 to DN600	Accepted larger than DN300	Considered on case by case basis	Supporting documentation shall be submitted by RPEQ to demonstrate the selected pipe material is appropriate for the purpose and complies with the AS2566	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	SP USE ONLY	
Iplex			SewerMAX +	DN225 to DN525							
8	Polypropylene (PP) Pipe	<b>240</b> 4.1 - As per standards 4.2 - SN10 & SN20 4.3 - SBR & EPDM 4.4 - As per standards	Enviropipes	EnviroPipe	DN150 to DN900						

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE

May 2024

ACCEPTED CIVIL PRODUCTS AND MATERIALS

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1	PE Pipe - Nusewers	242 4.1 - No alternative dimensions accepted 4.2 - PN8 SDR21 4.3 - Elastomeric seals not permitted 4.4 - External colour light grey solid or striped see POP203 4.5 - Internal colour white or light colour 4.6 - Pipe lengths for DN160 and larger with coils accepted for DN110 4.7 - PE100 only	Iplex	POLIplex	DN110, 160, 250, 315, 400, 500, 630, 800, 1000, 1200	For pipe bursting / cracking installations, minimum PE100 PN10 (SDR 17) to be used and installed with tracer wire, unless specified otherwise. Pipe wall thickness to be designed for installation forces. Butt welded joints are mandatory for pipe bursting / cracking installations.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	PE is mandatory pipe for reticulation sewers, PE is preferred pipe for larger sewers. Where > PN8 is required or >DN315 is required in smaller quantities, other deviations and dark internal pipe colour may be used with prior SP approval	
30			Vinidex	Sewertech							
31			David Moss Corporation	DAMOS Hi-Vis							
32			Viadux	SewerFlex	DN110, 160, 250, 315						
33			Poly Pipe	Enviropressure							
34			ACP	ACP	DN110, 160, 250, 315, 400, 500, 630, 800						
35			Pipemakers	Pipemakers							
36			Clover	Clover / Rohr							
37			Acu-Tech	Acu-Tech							
38	PE Fittings - Moulded	242 4.1 - No alternative dimensions accepted 4.2 - PN8 SDR21 4.3 - Elastomeric seals not permitted 4.4 - External colour light grey solid or striped with internal colour white or light colour, see POP203 4.5 - PE100 only	George Fischer / Iplex		Up to DN315	Electrofusion fitting to be long type.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	
40			Friatec / Vinidex								
41			Plasson	Lightfit							
42			Agru	AGRU							
43			Fusion Group / FusionPlast	Fusamatic							Up to DN630
44			NUPIGECO	Elofit							DN110 to DN630
45			Hydroflow / Plastitalia S.p.A	PLAST							Up to DN630
46			David Moss Corporation	DAMOS							Up to DN1000
47			Advanced Piping Systems / Plastitalia S.p.A	PLAS							Up to DN630
48	Fusion QLD	Flo Right	Up to DN450								
49	PE Fittings - Fabricated	242 4.1 - No alternative dimensions accepted 4.2 - PN8 SDR21 4.3 - Elastomeric seals not permitted 4.4 - External colour light grey solid or striped with internal colour white or light colour, see POP203 4.5 - PE100 only 4.6 - Fittings include: sweep bends, MH connectors, tee and bends for drop pipes and sweep junctions	Vinidex		DN110 to DN315	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	
51			Iplex								
52			Smartstream								
53			Adroit	Adroit							
54			David Moss Corporation	DAMOS Hi-Vis Fittings							
55			Holman	Holtech							
56			Pipestar	Pipestar							
57			Allmach PFS Pty Ltd	Sewerstream							
58			Advanced Piping Systems / Plastitalia S.p.A								
59	PE Flex Restraint Fitting (Used As Puddle Flange)	No WSA PS	Georg Fischer	EF Flex Restraint	DN160 to DN1600	PE 100 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	
60			Plasson	Flex Restraint	DN160 to DN1600						
61	VC Pipe	231 4.1 - DN100/150 Crushing Strength 34, DN225 and larger Class 160 4.2 - Sp-Soc and Sleeve Coupling 4.3 - All seal materials accepted	Hepworth	Supersleeve	DN100 to 1200		Use is subject to acceptance by SP May only be used as jacking pipes	NOT ACCEPTED BY SP	Considered on case by case basis May only be used as jacking pipes	Use is subject to acceptance by SP May only be used as jacking pipes	May only be used as jacking pipes
62			Steinzeug Keramo	Keramo							
63			Naylor / Rocla	Denlok							
64	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
65			Viadux								
66	Metal-Banded Flexible Coupling	235 4.1 - Need for adaptor bushes where difference between OD of pipe and ID of coupling greater than 16 mm 4.2 - Metal band and bolts shall be min SS316	Flex-Seal	Flex-Seal (shear banded coupling, aka Standard Coupling)	Up to DN600	Not to be used to connect to unrestrained PE Pipe. Fitting not designed to restrain thermal expansion/ contraction forces of PE pipework.		SP USE ONLY		Not to be used for PE pipes where thermal expansion / contraction of pipework is likely to result in pull-out of the coupling	Use is subject to acceptance by SP
67			DEKS	DEKS shear banded coupling	DN100 to DN225						
68			Rehau	Awaduct Flex Connect	DN100 to DN630						
69			VIP Polymers / Jaybro Group	VIPSeal	DN100 to DN600						

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71	DI Mechanical Couplings - Non End Thrust Restraint	270 4.1 - PN16 4.2 - All pipe materials except PE 4.3 - Long Series 4.4 - Straight Soc-Soc 4.5 - Stepped coupling require SP approval 4.6 - Flange end not used 4.7 - SBR & EPDM 4.8 - SS316 bolts, nuts and washers	Viadux	Gibault - Ezigib & Varigib	Up to DN675	Long type.  All DI fittings to be wrapped.  DI must have thermal bonded polymeric coating						
72			Crevet	Gibault & Universal								
73			AVK	Gibault & Universal								
74			Viking Johnson	MaxiFit & QuickFit								
75			Derwent Industries									
76			DEKS	DEKS FLEXI-GIB								DN80 to DN600
77			Daemco	Reiniversal								Up to DN600
78			Clover Pipelines	Clover Connect VPC								DN100 to DN600
79	Civil Pipes	CPS Uni-Gib	DN80 to DN300									
80							Use is subject to acceptance by SP		Use is subject to acceptance by SP			
81	Pushfit Coupling, Internal For Non-Pressure Applications	250	Feroco / Flex-seal	ICON Pushfit	DN95 / DN100 / DN95 to 100 / DN95 to 150 / DN100 to 150 / DN150		Use is subject to acceptance by SP	NOT ACCEPTED BY SP	SP USE ONLY	Use is subject to acceptance by SP	SP USE ONLY	
82	316 Stainless Steel Sewer OB Junction Clamps	346 4.1 - Nominal size DN100 - DN450; Branch sizes DN100 - DN225	Derwent Industries	Derwent	DN100 to DN450 with branch sizes DN100 / DN150 / DN225	For property connections on existing gravity sewer pipelines where type A or B connections are required.  A rubber ring socket joint (RRJ) to be factory fitted to the glue in branch by Derwent to suit the SEQ Code requirements.		SP USE ONLY	SP USE ONLY	Use is subject to acceptance by SP and not to be used on PVC-O or PE pipes	SP USE ONLY	
83	316 Stainless Steel Sleeve For Repair	No WSA PS 4.1 - Compatible with all common drainage and sewer pipeline materials including PVC-U, PP, PE, GRP, VC, DI and concrete. 4.2 - Compliance with ASTM F3110-14	Smart Lock	Smart Lock	DN100 to DN750	Installation must be done by licenced installers who are certified by the supplier	SP USE ONLY	SP USE ONLY	SP USE ONLY	SP USE ONLY	SP USE ONLY	
84	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	
85			Humes									
86	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 4.5 - Sewer Pipe and Jacking Pipe approved	Iplex	Meyer pipe	DN200 to DN2600		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.)	
87			Global Pipe	Al Watani								
88	CC-GRP (Centrifugally Cast) Pipe And Fittings - Sewer Pipe	237S 4.1 - PN1 4.2 - SN10,000 minimum 4.3 - Soc-Sp RRJ 4.4 - Standard Glass 4.5 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN400 to DN1400	Sewer Pipe	Acceptance yet to be determined	Considered on case by case basis Supporting documentation shall be submitted by RPEQ to demonstrate the selected pipe material is appropriate for the purpose and complies with the AS2566.	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
89	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	RPC Pipe Systems / Reece	Flowtite	DN300 to DN3000	Sewer Pipe	Considered on case by case basis	Considered on case by case basis Supporting documentation shall be submitted by RPEQ to demonstrate the selected pipe material is appropriate for the purpose and complies with the AS2566.	Considered on case by case basis	Use is subject to acceptance by SP	Considered on case by case basis	
90			Global Pipe	Fiberstrong	DN300 to DN4000		Acceptance yet to be determined					
91			Superlit / Clover Pipelines	Superlit	DN300 to DN3000		Acceptance yet to be determined					
92	CC-GRP (Centrifugally Cast) Pipe And Fittings - Jacking Pipe	205J 4.1 - As per product 4.2 - Pressure Class by design 4.3 - Stiffness Class by design 4.4 - Jacking Load by design 4.5 - 316 Stainless Steel (min) or GRP couplings 4.6 - SBR & EPDM 4.7 - Pipe Lengths to manufacturers requirements 4.8 - Standard Glass	Hobas / Global Pipe	Hobas	DN250 to DN3600	Jacking pipes	Acceptance yet to be determined	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP Only use GRP coupling for acid sulphate soil and saline environment	
93			DFHB / Empire Infrastructure	BOSSPIPE	DN300 to DN2000		Considered on case by case basis					
94			Superlit / Clover Pipelines	Superlit	DN400 to DN1400		Acceptance yet to be determined					
95	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	RPC Pipe Systems / Reece	Flowtite	DN300 to DN3000	Jacking pipes	Considered on case by case basis	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	Considered on case by case basis Only use GRP coupling for acid sulphate soil and saline environment	
96			Superlit / Clover Pipelines	Superlit	DN300 to DN3000							Use is subject to acceptance by SP
97			Future Pipe Industries / Empire Infrastructure	Fiberstrong	DN300 to DN2200							Acceptance yet to be determined
98	Non-Return Valves	280 4.1 - Solvent Cement 4.2 - SN10 4.3 - No alternate elastomeric materials for joint seals accepted  No WSA PS	Iplex	Flap valve	DN50 to DN300	All DI fittings to be wrapped	Use is subject to acceptance by SP	Considered on case by case basis		Use is subject to acceptance by SP		
99				Reflux valve fabricated	DN100							
100			Vinidex	Flap valve	DN50 to DN100							
101			Feroco	HDPE Flap/Valve	DN100 to DN600							Considered on case by case basis
102			Hygrade Water	WaStop Non-return valves	DN75 to DN1800							Acceptance yet to be determined
103	Flotech Controls	Red valve - Tideflex check valves	DN50 to DN2400	Use is subject to acceptance by SP								
104	HMA Flow & Industrial	Proflex Rubber Check Valve	DN25 to DN2500	Considered on case by case basis								
105	Fluid Control	Proflex Rubber Check Valve	DN25 to DN2500	Considered on case by case basis								
106	Prime Composites	Ring Mount Floodgate Wall Mount Floodgate Scour Valve Floodgate	DN100 to DN900	Acceptance yet to be determined								

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

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<b>Category: SEWERAGE PIPES AND FITTINGS - PRESSURE</b>											
119	PVC-M Pipe	209 4.1 - PN16 4.2 - Sewer Rising main 4.3 - Series 2 only 4.4 - Cream refer POP203 4.5 - SBR & EPDM	Iplex	RHINO	DN100, 150, 200, 225, 250, 300 & 375					Use is subject to acceptance by SP	NOT ACCEPTED BY SP
120			Vinidex	Hydro							
121			Viadux	Plaspipe							
122			Micron Pipelines	Micron Pipelines							
123			Pipemakers	Pipemakers Enviromain	DN100 to DN300						
124	PVC-O Pipe	210 4.1 - PN16 4.2 - MRS400 or MRS450 4.3 - Sewer Rising main 4.4 - Series 2 only, Cream refer POP203 4.5 - SBR & EPDM	Iplex	ApolloBLUE	DN100, 150, 200, 225, 250, 300 & 375					Use is subject to acceptance by SP	NOT ACCEPTED BY SP
125			Vinidex	Supermain							
126			Micron Pipelines	Micron Pipelines							
127			Pipemakers	Alphamain							
128				TOM©	Up to DN375						
129	DI Pipe	200 and WSAA TN6 4.1 - All Pressure Classes - see Column G 4.2 - Seal Coat not required for Sewerage 4.3 - Internal Linings - see Columns G-L 4.4 - All pipes to be polyurethane or Zn-Al alloy and epoxy coated. All fittings to be Fusion Bonded Polymeric Coated 4.5 - Restraint Joint Seals by approval 4.6 - SBR and EPDM 4.7 - PE sleeving is required on ALL DI pipes unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	Jindal SAW / Iplex		DN250 to DN750 (not 225)	PN20  PN20, CAC lining for corrosive flows  PN35 and Flange Class, GP or SR lining 400g/m2 Zn/Al+100µm epoxy or min 900 micron Polyurethane external coating.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Cement mortar lining of any type is not permitted at locations where there is a potential of the pipe lining in contact with air/gas continuously or intermittently. Alternative non-corrosive lining or pipe and fittings required.	Cement mortar lining of any type is not permitted within 5.0 metres of the HGL at pump stop. Alternative non-corrosive lining of pipe and fittings required.
130			Vinidex	ZAP-GP							
131			Clover Pipelines	Clover / Xinxing							
132			Vinidex	ZAP-HAC							
133			Clover Pipelines	Clover / Xinxing							
134			Vinidex	ZAP-GP							
135			Jindal SAW / Iplex	Irontite (XINAL400+ coating)	Up to DN750 (not 225)						
136			Jindal SAW / Iplex	Irontite (XINAL400+ coating)							
137			Vinidex	ZAP-HAC							
138			Saint-Gobain	PAM / Integral Zinalium							
139			Viadux	DIMAX / TYTONXTREME Z+	DN100 to DN750 (not 225)						
140			Clover Pipelines	Clover / Xinxing							
141	Clover Pipelines	Clover / Samsun	DN100 to DN300 (not 225)								
142	Reece / Viadux	DIMAX / TYTON XCEED Z+	DN100 to DN750 (not 225)								
143	Jindal SAW / Iplex	Jindal SAW									
144					Min 1300 micron Polyurethane internal lining					Use is Subject to acceptance by SP	
145	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 to DN700	Polyurethane internal protection	Detector Tape for ISO Pipe spirally wound along pipe and over PE sleeve.	Considered on case by case basis	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
146	DI Fittings - Bends, Tapers, Tees/Branches, Connectors, Risers & Caps/Blank Ends	201 4.1 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.2 - PN 35 wall thickness for all fittings including PN16 flanged fittings 4.3 - Restraint Joint Seals by approval 4.4 - SBR & EPDM	Viadux	Tyton Joint & Sureflow (not Light)	DN80 to DN750	Traditional fittings  DN225 not accepted  Thermal bonded polymeric coating is the standard material in WSA PS 201 and WSA PS212.  All DI fittings to be wrapped					Restraint joint seals not suitable for: -PN20 pipe; -Aboveground applications; -Combining joint restraint and thrust blocks; -Epoxy or fusion coated spigots; -Other manufacturers sockets or other pipe materials. Use of Restrained Joint Rubber Rings (Tyton-lok) subject to acceptance by SP.
147			Crevet / Iplex	Crevet (not 1BS or BS or LW)	DN80 to DN750						
148			Vinidex	Superlink (not Superlink II)	DN300 to DN750 (not DN80 to DN250)						
149			Derwent	Derwent (plus A or J or M)	DN200 to DN750 (not DN80 to DN150)						
150			Gillies / Hygrade	Gillies	DN80 to DN300						
151			Hingiri Castings / Galvin Engineering / CivilPipes	Galvin	DN80 to DN300						
152			Dobbie Dico	Dobbie Series G1 (not Series G2)	DN100 to DN250						
153			Mallet	Mallet	DN80 to DN750						
154			Daemco	Daemco	DN80 to DN375						
155			Reece	DIMAX	DN200 to DN300 (not DN80 to DN150)						
156			AVK	Series 718 (not Light)	DN80 to DN750					Acceptance yet to be determined	

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1		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.)
157	Bolts										
158	316 SS Repair And Flanged Off-Take Clamps	313 4.1 - Type R, Type F or Type R and Type F by SP approval 4.2 - Pipe DN by SP approval 4.3 - Off-take DN by SP approval 4.4 - Min. PN16	Crevet		DN100 to DN300	Flanged off-take clamps approved Type R for DI, AC and CI host pipes and Type F for PVC-m, PVC-u only, to pipe manufacturers specifications. Host pipe to be of suitable condition.	Use is subject to acceptance by SP	Considered on case by case basis	SP USE ONLY	Only repair clamps accepted	Type R accepted only In acid sulphate soils the clamp must be Denso wrapped.
159			Viadux	Wang	DN100 to DN300						
160			Cascade Control	Rapid Clamps	DN40 to DN350						
161			Daemco	Norma Connect	DN80 to DN300						
162			AVK	AVK Series 748	Up to DN300						
163			Derwent								
164	Flange (DI) Off-Take Clamps For DIOD Pipes	313 4.1 - Type R, Type F or Type R and Type F by SP approval 4.2 - Pipe DN by SP approval 4.3 - Off-take DN by approval 4.4 - Min. PN16	Derwent	Uniclamp	DN100 & DN150	Flanged off-take clamps approved Type R for DI, AC and CI host pipes and Type F for PVC-m, PVC-u only, to pipe manufacturers specifications. Host pipe to be of suitable condition.	Type R and Type F accepted Accepted to be used where under pressure connection is approved by SP		SP USE ONLY	Only DN100 flange offtake accepted	
165	Repair Couplings	270 4.1 - PN16 4.2 - All pipe materials 4.3 - Short and Long Series 4.4 - Straight and Stepped 4.5 - All DN Range options 4.6 - Flange end not used 4.7 - EPDM, NBR, Neoprene 4.8 - SS316 bolts, nuts and washers shall be used	Nova Siria / Hygrade Water	Duofit	DN300 to DN2000	For use on PE pipe only. Installed and commissioned in accordance with manufacturers recommendations.	Use is subject to acceptance by SP	Considered on case by case basis	SP USE ONLY	Use is subject to acceptance by SP	Use is subject to acceptance by SP
166			Hygrade Water Australia	cQuick Encapsulation Repair collar	DN80 to DN200						
167			AVK	Series 208 Encapsulation Repair collar	DN80 to DN200						
168			Bellhouse	Bell Joint Leak Clamp	DN80 to DN300						
169	Flange (DI) Off-Take Clamps	310 4.1 - Pipe DN63 and larger (see WSA PS 207) - Off-take ID 20 mm minimum 4.2 - With or without electrical insulation 4.3 - Female Rp thread to AS ISO 7.1	Hawle / Hygrade Water	Haku	DN125 to DN355	For use on PE pipe only. Installed and commissioned in accordance with manufacturers recommendations.	Accepted to be used where under pressure connection is approved by SP	Considered on case by case basis	SP USE ONLY	Only accepted for use where welded joints are not practical and where under pressure connection is approved by SP	
170			Derwent	Uniclamp	DN125 & DN180						
171	Metal-Banded Flexible Couplings	235 4.1 - Need for adaptor bushes where difference between OD of pipe and ID of coupling greater than 16 mm 4.2 - Metal band and bolts shall be min SS316	Flex-Seal	Flex-Seal	Up to DN600			Considered on case by case basis	NOT ACCEPTED BY SP		NOT ACCEPTED BY SP
172	Vacuum Valve Coupling Use Only		DEKS	DEKS shear banded coupling	DN100 to DN225					Use is subject to acceptance by SP	
173	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		Long type. All DI fittings to be wrapped. DI must have thermal bonded polymeric coating.					
174			Crevet	Gibault & Universal							
175			AVK	Gibault & Universal							
176				AVK Supa-Gib Couplings	Up to DN675						
177			Viking Johnson	MaxiFit, QuickFit							
178			Derwent Industries		DN100 to DN300						
179			DEKS	DEKS FLEXI-GIB	DN80 to DN600						
180			Daemco	Reiniversal	Up to DN600						
181	Clover Pipelines	Clover Connect VPC	DN100 to DN600								
182	Civil Pipes	CPS Uni-Gib	DN80 to DN300								
183	Stainless Steel Flexible Couplings To Unrestrained	285 4.1 - Unrestrained for DI, AC, PVC, steel, GRP and concrete pipes 4.2 - PN16 min	Uniones Arpol SA / Global Pipe	ARPOL	DN150 to DN1200	Arpol Instal for joining pipes and Arpol Rep for pipe repairs. Required torque as per manufacturer's requirement marked on each fitting		Considered on case by case basis	ARPOL INSTAL - Accepted ARPOL REP - SP USE ONLY	Use is subject to acceptance by SP	Use is subject to acceptance by SP



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184	DI Mechanical Fittings - End Thrust Restraint (Gripper Type)	271 4.1 - PN16 4.2 - CI, DI, PE, SCL, AC 4.3 - Long Series 4.4 - Straight and Stepped and Flange Adaptor 4.5 - All DN range options 4.6 - Flange adaptors to be drilled as per AS/NZS 4087 Figure B5 4.7 - SBR & EPDM & Nitrile 4.8 - Use of pipe stiffener inserts for PE pipe as per fitting manufacturer's requirements 4.9 - All DI fittings to be wrapped with CI and DI systems 4.10 - Flange adaptors up to DN355 PE shall be full bore connection i.e. DN63 PE / DN50 FL, DN125 PE / DN100 FL, DN180 PE / DN150 FL, DN250 PE / DN200 FL, DN315 PE / DN250 FL and DN355 PE / DN300 FL	Hawle / Hygrade Water	Synoflex Restraint	50NB to 300NB	Synoflex is manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DNs may not suit the same 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 DNs for their pipes.  Does not require pipe stiffener inserts to be installed for PN16 (SDR 11) PE100 pipe.	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater																										
185			Georg Fischer	Multijoint 3000 Plus Restraint		Georg Fischer 3000 Plus is manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DNs may not suit the same 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 DNs for their pipes.  Requires pipe stiffener insert to be installed when connecting to PE or PVC pipe.						SP USE ONLY Subject to structural assessment of host pipe	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																							
186			AVK / Fusion Plast Australia	Supa-Maxi	AVK Supa-Maxi is manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DNs may not suit the same 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 DNs for their pipes.  Requires pipe stiffener insert to be installed when connecting to PE or PVC pipe.  The PE transition couplings rated PN10 are not accepted.	SP USE ONLY Not accepted for use on PVC and GRP pipes End cap shall be used with thrust block									Use is subject to acceptance by SP	The use of gripper type fittings on AC, DI and SCL pipe is subject to acceptance by SP																					
187			Nova Siria / Hygrade Water	Multigrip	DN350 to DN1400												Requires pipe stiffener insert to be installed when connecting to PN16 (SDR 11) PE100 pipe.	Use is subject to acceptance by SP	Considered on case by case basis	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.																
188			Viking Johnson	UltraGrip	DN100 to DN300																	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater											
189			Hawle / Hygrade Water	System 2000	DN63 to DN355												Does not require pipe stiffener inserts to be installed on PN16 (SDR 11) PE100 pipe.										City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater						
190			AVK	Supa Plus Restraint	DN63 to DN315												Requires pipe stiffener inserts to be installed															SP USE ONLY Subject to structural assessment of host pipe	Only accepted for use where welded joints are not practical	AVK SupaPlus restrained couplings are subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.  The use of gripper type fittings on AC, DI and SCL pipe is subject to acceptance by SP			
191			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		
192			Daemco	Xcel Restrained Coupling and Flange Adaptor	DN63 to DN315 for Coupling & DN63 to DN315 for Flange Adaptor												Does not require pipe stiffener inserts to be installed for PN16 (SDR 11) PE100 pipe.																			Only accepted for use where welded joints are not practical	Use of Daemco Xcel Restrained Couplings is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations
193			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.																				
194	DI Flanged Telescopic Flexible Fitting	No WSA PS Aligned to WSA PS-201 and WSA PS-270 with Flanges to AS 4087 Figure B5 To comply with WSA PS-201S when published	Hawle / Hygrade Water	Vario	DN50 to DN200		All DI fittings to be wrapped	SP USE ONLY	SP USE ONLY	SP USE ONLY																											
195	Dismantling Joints For Flange Pipe And Fittings	284 4.1 - No alternative material grades 4.2 - As per manufacturer's requirements 4.3 - Configuration: FI-FI for DJ & FI/Sp for UniFlange 4.4 - Fitting type: thrust type and non-thrust type 4.5 - Thrust Restraint by Fitting 4.6 - SBR & EPDM	Viadux				Thrust restraint type and non-thrust type are Flanged to AS4087 PN16.	Dismantling joints shall be restrained type only Use of uni-flange is subject to acceptance of SP	Logan City Council	Redland City Council	Urban Utilities	Unitywater																									
196			Viking Johnson				SS316 bolts, nuts and washers.	NOT ACCEPTED BY SP					Restrained type only  To be used within pit or aboveground locations only	Considered on case by case basis	Use is subject to acceptance by SP																						
197			HMA Flow & Industrial	Uni-Flange Adaptor	DN50 to DN500		Larger sizes of UniFlange shall be assessed for available Fitting PN vs Pipeline Test Head.	NOT ACCEPTED BY SP								Acceptance yet to be determined	Acceptance yet to be determined																				
198			Hygrade Water	Pipemate	DN80 to DN900			Restraint type only																													
199			AVFI	AFD10 Series	DN80 to DN1200																																
200	AVK	Series 970 (FD10)	DN80 to DN1200		All DI fittings to be wrapped																																

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201	PE Pipe	207 4.1 - PN16 4.2 - Sewer Rising main 4.3 - Coil pipe permitted up to DN125 with Pipe lengths for larger DN 4.4 - Cream refer POP203 4.5 - PE100 only	Iplex	POLIplex	DN40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800	For directional drilling installations, minimum SDR 9 (PN20 PE100) unless specified otherwise and install with tracer wire.  Pipe wall thickness to be designed for installation forces.  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)		
202			Vinidex	Sewertech	DN40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200								
203			David Moss Corporation	DAMOS	DN40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200								
204			Poly Pipe	SewerFlex	DN40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800								
205			Enviropipes	Enviropressure	DN40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000								
206			Cromford	Identipipe	DN40, 50, 63, 90, 125, 180, 250, 315, 355, 450								
207			ACP	ACP	DN40, 50, 63, 90, 125, 180, 250, 315								
208			ASA		DN40, 50, 63, 90, 125								
209			Agru										
210			Pipemakers	Pipemakers	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800								
211			Clover	Clover / Rohr									
212			Acu-Tech	Acu-Tech									
213	PE Pipe - High Stress Crack Resistant (HSCR) Polyethylene Pipe	207, POP016 4.1 - PN16 minimum 4.2 - Sewer Rising main 4.3 - Coil pipe permitted up to DN125 with Pipe lengths for larger DN 4.4 - Cream refer POP203 4.5 - HSCR PE100 only	Iplex	Millennium HSCR PE	DN40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800	For directional drilling and pipe bursting installations, minimum SDR 9 (PN20 HSCR PE100) unless specified otherwise and install with tracer wires.  Pipe wall thickness to be specified as normal PE100 as such "extra" strength should be provided.  Butt welded joints are mandatory for HDD construction where continuous pipes on coil are not available.				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)		
214			Acu-Tech	Acu-Tech									
215			David Moss Corporation	DAMOS	DN40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200								
216			Vinidex	HSCR PE PIPE	DN40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200								
217			Enviropipes	Enviropipes	DN40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000								
218	PE Fittings - Moulded - High Stress Crack Resistant (HSCR) Polyethylene	208 2(a) - AS/NZS4129 or EN1555 or EN12201 or EN13244 is acceptable. HSCR compounds shall comply with AS/NZS 4131 and POP016. 4.1 - PN16 4.2 - Electrofusion and butt weld 4.3 - Couplings, Reducers, End Caps, Bends, Tees, Stub Flanges 4.4 - Flanges & SS316 backing rings to AS/NZS 4087 Fig B5 or B7 4.5 - SBR & EPDM	Agru	Agruline	Up to DN630	Electrofusion fitting to be long type. Stub flange may only be used for DN450 and larger sizes	Sizes of DN630 and above which are machined fittings are subject to acceptance by SP		Considered on case by case basis	Considered on case by case basis	Accepted up to DN355		
219			David Moss Corporation	DAMOS	DN63 to DN1000						Spigot fittings only accepted	Acceptance yet to be determined	Acceptance yet to be determined
220	PE Fittings - Moulded	208 2(a) - AS/NZS4129 or EN1555 or EN12201 or EN13244 is acceptable 4.1 - PN16 4.2 - Electrofusion and butt weld 4.3 - Couplings, Reducers, End Caps, Bends, Tees, Stub Flanges 4.4 - Flanges & SS 316 backing rings to AS/NZS 4087 Fig B5 or B7 4.5 - SBR & EPDM	George Fischer			Electrofusion fitting to be long type. Stub flange may only be used for DN450 and larger sizes.			Considered on case by case basis	Considered on case by case basis	Flanged tees and flanged saddles are not accepted by SP		
221			Friatec / Vinidex	Frialen	DN63XDN32 to DN350XDN90								
222			Plasson										
223			Agru	AGRU	Up to DN630								
224			Fusion Group / FusionPlast	Fusamatic	Up to DN630								
225			NUPIGECO	Elofit	DN20 to DN710								
226			Plastitalia S.p.A / Hydroflow	PLAST	Up to DN630								
227			Plastitalia S.p.A / Advanced Piping Systems	PLAS	Up to DN630								
228			Fox Fittings Sp. / Advanced Piping Systems	Fox	Up to DN630								
229			Simona / Plasson	Simona	Up to DN500								
230			Mako	Mako	Up to DN630								
231			David Moss Corporation	DAMOS	Up to DN1000								
232	Fusion QLD	Flo Right	Up to DN450										
233	Guangdon Liansu / Crew Pipelines	Lesso	DN63 to DN800										
234	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 be used for DN450 and larger sizes.			Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP		
235			Pipestar	Pipestar	Up to DN355						Use is subject to acceptance by SP	Only sweep bends accepted.	Use is subject to acceptance by SP
236			Enviropipes Pty Ltd	Enviropipes Pty Ltd	DN20 to DN1200						Acceptance yet to be determined	Acceptance yet to be determined	
237	PE Flex Restraint Fitting (Used As Puddle Flange)	No WSA PS 1-PN16 minimum	Georg Fischer	EF Flex Restraint	DN180 to DN1600	PE100 In accordance with manufacturer's requirements			Considered on case by case basis	NOT ACCEPTED BY SP	Use is subject to acceptance by SP		
238			Plasson	Flex Restraint	DN180 to DN1600								



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239	Full Face PE Flanges	<b>208 (Moulded Fittings)</b> 4.1 - PN16 4.2 - Electrofusion and butt weld 4.3 - Full Face Flange with SS backing ring 4.4 - Flange standard AS/NZS 4087 B5 or B7 4.5 - SBR & EPDM	Simona / Plasson	Simona		Metal insert in the flange, backing rings not required	Corresponding full bore flange sizes for PE pipe up to DN355 shall be as per Clause 4.5 of the Water Supply Code	Considered on case by case basis	Considered on case by case basis	NOT ACCEPTED BY SP	Use of stub flanges is subject to acceptance by SP		
240			Plasson		DN80 / DN100	Slotted flanges & backing rings suit both DN80 and DN100							
241			Iplex		Up to DN355	Full bore connections							
242					Friatec / Vinidex	Frialen	Up to DN180	Metal insert in the flange, backing rings not required	DN90 slotted flange is not accepted			Use is subject to acceptance by SP	Use is subject to acceptance by SP
243					Fusion Group / FusionPlast	Fusamatic	DN90 to DN450		Corresponding full bore flange sizes for PE pipe up to DN355 shall be as per Clause 4.5 of the Water Supply Code				
244					David Moss Corporation	DAMOS	Up to DN1200		Corresponding full bore flange sizes for PE pipe up to DN355 shall be as per Clause 4.5 of the Water Supply Code				
245		<b>208 (Fabricated Fittings)</b> 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	Corresponding full bore flange sizes for PE pipe up to DN355 shall be as per Clause 4.5 of the Water Supply Code	Considered on case by case basis					
246	Mechanical Restraining Flange For PE Pipe	<b>No WSA PS</b> 1 - PN16 Minimum 2 - SS316 bolts, nuts and washers shall be used	Derwent Industries	Derwent Industries	DN125 & DN180		Use is subject to acceptance by SP	Considered on case by case basis	Considered on case by case basis		Use is subject to acceptance by SP		
247	Steel Pipe	<b>203</b> 4.1 - MPa 1.6 minimum 4.2 - DN by Design subject to SP approval 4.3 - Seal Coat not required 4.4 - As per SP requirement 4.5 - Joint requirements by Design 4.6 - Cathodic Protection by design 4.7 - Standard pressure tests 4.8 - Fusion bonded polyethylene lining 4.9 - Zinc metal spray as per the specification 4.10 - SBR & EPDM 4.11 - Fusion bonded polyethylene coating minimum	Steel Mains	Sintapipe	DN324 to DN2159	RRJ unless otherwise approved	Accepted OD610 or larger	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
248			Pipe Lining and Coating	Fusionkote	OD168 to OD3624	Lining to be fusion bonded polyethylene							
249	Steel Fittings To 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	Steel Mains	Sintakote	OD114 to OD2500			Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP			
250			Pipe Lining and Coating	Fusionkote	OD168 to OD3624								
251	Stainless Steel Pipe	<b>No WSA PS</b> 1 - WSAA Materials Fact Sheet No:2 Selection of Stainless Steels 2 - WSAA Materials Fact Sheet No:3 Fabricating Stainless Steels <b>No WSA PS</b> 1 - WSAA Materials Fact Sheet No:2 Selection of Stainless Steels for Use in the Water Industry. 2 - WSAA Materials Fact Sheet No:3 Stainless Steel Fabrication. 3- WaterMark acceptance. 4- ASSDA accredited fabricator.	ASSDA accredited fabricators	N / A	DN100 to DN750	Min. Grade 316 Min. PN16 Flange to AS4087 Fig B5	Use is subject to acceptance by SP	Considered on case by case basis		Use is subject to acceptance by SP	Use is subject to acceptance by SP		
252				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		
253	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			

A	B	C	D	E	F	G	H	I	J	K	L										
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater										
254	Resilient Seated Gate Valves, Thermal Bonded Polymeric Coating	<b>260</b> 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 570 (Lead Free)	Up to DN400 Up to DN600 DN80 to 300 (FI-FI & Soc-Soc) DN450 to 600 DN100 to 200 DN50to300	Anchor legs approved  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	FI - Soc valves are not accepted  FL-FL integral bypass valves are considered on case by case basis	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is considered on case by case basis	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is considered on case by case basis	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP									
255			Hawle	Series 55 E2	DN100 to 200 DN50to300																
256			Hawle / Hygrade Water	E3 (FL-FL)	DN100 to DN300																
257			Viadux	Series 500 Auslite II Auslite III	Up to DN600 DN100 to DN300 Up to DN600 DN80 to DN600																
258			Karon / Challenger	Karon (FL-FL light weight design) Karon (FL-FL integral bypass valves)	DN80 to DN300 DN450 to DN600																
259			AVFI		DN80 to DN600																
260			Betta	BETTA	DN80 to DN600																
261			AAP Industries	Maxiflo / appFLO	DN80 to DN300																
262			Derwent Industries	Derwent	DN80 to DN600																
263			DAEMCO		DN80 to DN300 for Soc-Sp DN80 to DN375 for FL																
264			Reece	DIMAX	DN80 to DN600 (FI-FI) DN450 to DN600 (FI-FI with bypass) DN100 to DN300 (Soc-Soc) DN100 to DN300 (Sp-Sp) DN100 to DN150 (FI-Soc)																
265			Resilient Seated Gate Valves, Thermal Bonded Polymeric Coating	<b>278</b> (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						
266					Betta								Betta	DN100 & DN150							
267	Reece	DIMAX			DN100 & DN150																
268	Resilient Seated Gate Valves, Thermal Bonded Polymeric Coating	<b>281</b> (RSGVs with restrained/gripper ends) 4.1 - PN16 4.2 - Anti-Clockwise closing Configurations accepted 4.3 - No requirement for spindle cap colour 4.4 - Extension Spindle to WSA PS - 262 4.5 - Spindle Cap required 4.6 - SBR & EPDM 4.7 - Stiffener inserts for PE pipe as per manufacturers requirements 4.8 - Integral By-pass on DN450 and larger (Not accepted by Unitywater and Urban Utilities)	AVK	Series 01 / 71	Up to DN300	All valves shall be restrained  All DI fittings to be wrapped						Use of gripper type RSGVs is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations									
269			Hawle	E2 System 2000	DN50 to DN300																
270			Betta	BETTA	DN100 to DN300																
271			Derwent Industries	Derwent	DN100 to DN150																
272	DAEMCO		DN100 to DN150																		
273	Resilient Seated Gate Valves, Thermal Bonded Polymeric Coating	<b>260</b> 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 to 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											
274			Daepoong / CNS Engineering	S- Gate Valve	DN100 to DN450	Valve for Underpressure Line Stopping, suitable for rigid pipes with CIOD compatibility, i.e. Ductile Iron, Cast Iron and Asbestos Cement	SP USE ONLY	SP USE ONLY	SP USE ONLY	SP USE ONLY	SP USE ONLY										
275	Metal Seated Gate Valves, Thermal Bonded Polymeric Coating	<b>261</b> 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 to DN600	All DI fittings to be wrapped  All valves shall be restrained	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Considered on case by case basis												
276			Sureflow Series 2580	DN375 to DN600																	
277	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															
278			NIBF / Iplex																		
279			Forge Bros / Vinindex																		
280			Daemco																		
281			Challenger																		
282	ANT Infrastructure Technologies	ANT	ANT	Up to DN300	Use is subject to acceptance by SP	Acceptance yet to be determined	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP												

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1											
283	DI Fittings - Tees And Crosses With Thermal Bonded Polymeric Coating And Built In Resilient Seated Gate Valves And Vertical Hydrant Outlet	No WSA PS but WSA PS-260 for valve component 4.1 - PN16 4.2 - Flange-Flange 4.3 - No integral by-pass 4.4 - Gear Box on DN600 and larger (Refer Mechanical List) 4.5 - Anti-Clockwise closing 4.6 - No requirement for spindle cap colour 4.7 - Extension Spindle to WSA PS - 262 4.8 - Spindle Cap 4.9 - SBR & EPDM	Hawle / Hygrade Water	Combi Valve	DN100, DN150 & DN200	Thermal bonded polymeric coating is the standard material in WSA PS 201 and WSA PS 212  All DI fittings to be wrapped	Use is subject to acceptance by SP		NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP
284	Ball Valves	274 4.1 - PN16 4.2 - Body material: CF8M316 stainless steel; Ball material: CF8M; Components not in contact with water: SS304; 4.3 - By product 4.4 - BSPT thread 4.5 - Clockwise closing	AVFI	V1 Series - 1 Piece V2 Series - 2 Piece V3 Series - 3 Piece V2FH Series- Flanged	DN8 to DN50 DN8 to DN100 DN8 to DN100 DN15 to DN50	BSPT threaded connections  Suitable for sewage	Use is subject to acceptance by SP	Considered on case by case basis		Use is subject to acceptance by SP	
285	CC-GRP (Centrifugally Cast) Pipe And Fittings - Sewer Pipe	237S 4.1 - PN16 4.2 - SN10,000 minimum 4.3 - Soc-Sp RRJ 4.4 - Standard Glass 4.5 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN400 to DN1400	DI Fittings to WSA PS 201 for Tees and Bends	Acceptance yet to be determined	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP Coupling - Grade 316 Stainless Steel (min.)
286	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	RPC Pipe Systems / Reece	Flowtite	DN300 to DN3000	DI Fittings to WSA PS 201 for Tees and Bends	Considered on case by case basis	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	Considered on case by case basis Coupling - Grade 316 Stainless Steel (min.)
Global Pipe			Fiberstrong	DN300 to DN4000	Acceptance yet to be determined		Use is subject to acceptance by SP Coupling - Grade 316 Stainless Steel (min.)				
Superlit / Clover Pipelines			Superlit	DN300 to DN3000							
289	Flowmeter - Network Meter	No WSA PS 4.1 - Flange to AS4087 Figure 5 4.2 - PN16	Emerson	Emerson			Acceptance yet to be determined	NOT ACCEPTED BY SP	Considered on case by case basis	NOT ACCEPTED BY SP	
290			ABB	ABB			Considered on case by case basis		ABB Water master		
291			Siemens	Siemens					Use is subject to acceptance by SP		
292			E & H	E & H					E & H Promag W400		
293			Krohne	Krohne			Acceptance yet to be determined		Considered on case by case basis		Acceptance yet to be determined
294	Non-Return Valves - Ball Type	No WSA PS 1 - Class PN16 min 2 - Ductile Iron body 3 - SS316 bolts, nuts and washers 4 - Medium - Sewage 5 - Installation to Vertical 6 - Flanged to AS 4087 Figure B5 7 - Thermal-bonded polymeric coating to AS/NZS 4158	Applied Process Equipment, Inc	HDL Model 5087	DN40 to DN600	Suitable for sewage service, vertical orientation only	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Considered on case by case basis	Use is subject to acceptance by SP	

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1	<b>Category: SEWERAGE MISCELLANEOUS ITEMS</b>															
295	Maintenance Structure Covers, Frames And Risers (Including For Emergency Storage Maintenance Holes)	<b>290</b> 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	<b>Concrete Infill Covers are NOT ACCEPTED BY SP</b> Approval of Class D subject to ultimate state load of 240KN as per AS3996:2019. Class E to be used for motorway locations as per AS3996:2019 DI/CI MH lids and frames are not to be used for MHs where internal protective coatings are required as per Clause 7.6.2 (i) to (vii) of the Sewerage Code	<b>Concrete Infill Covers are NOT ACCEPTED BY SP</b> 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	<b>Concrete Infill Covers are NOT ACCEPTED BY SP</b>	<b>Concrete Infill Covers are NOT ACCEPTED BY SP</b>	<b>Concrete Infill Covers are NOT ACCEPTED BY SP</b>					
296			EJ									Acceptance yet to be determined	Acceptance yet to be determined	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP
297			Webforge													
298			Civilmart													
299			Durham													
300			Hygrade													
301			Weldlok	Weldlok												
302	Ducast	Ducast														
303	Everhard	Everhard														
304																
305	Maintenance Structure Concrete Upstand with Frame and Cover (For Structures with Internal PE Lining)	<b>290</b> 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 - Prefabricated polyethylene (PE) lined necks for lined maintenance structure 4.13 - Rocking of cover in frame is not permitted	EJ			Refer Standard Drawings Covers with another Service Provider's name not accepted Use of Square and Rectangular Covers and Frames subject to SP approved based on Design needs	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	<b>Concrete Infill Covers NOT ACCEPTED BY SP</b> EJ UA60DSEW PEU - 600mm Class D lid with - PE Lined Concrete Upstand EJ LA60DSEW PEU - 600mm Class D lid with - PE Lined Concrete Upstand					
306	Polymeric Riser Ring For Concrete Maintenance Holes	<b>345</b> 4.1 - Circular 4.2 - As per Manufacturers requirements 4.3 - 600 mm Minimum as per SP clear opening requirements	ISC Services	Cretex Pro-Ring			Approved are Cretex Pro-Ring polymeric Class D angle, flat and grade make-up rings for sewer maintenance holes round of 610mm opening and rectangular of 914x610mm opening with thickness from 19 to 152mm. Approved for retrofitting only.	Use is subject to prior approval by SEQ-SP. Use is only applicable to raising existing maintenance hole access cover & frame.	Considered on case by case basis. Use is only applicable to raising existing maintenance hole access cover & frame.	Use is subject to prior approval by SEQ-SP. Use is only applicable to raising existing maintenance hole access cover & frame.	Use is subject to prior approval by SEQ-SP. Use is only applicable to raising existing maintenance hole access cover & frame.					
307	Maintenance Shaft Covers, Frames And Risers DN<=450	<b>292</b> 4.1 - ≤ DN 450 Round 4.2 - Round solid top 4.3 - DN430 min clear opening 4.4 - Class B and Class D 4.5 - Standard Lifting Key 4.6 - Markings to AS3996 Clause 1.6. 4.7 - No hinge 4.8 - Standard packaging and delivery 4.9 - As per standards 4.10 - Standard coating 4.11 - No bolt down required 4.12 - As per SP requirements	Smartstream	Smartstream Top Hat-P8HDS		DI - Class D	Approval of Class D subject to ultimate state load of 240KN as per AS3996:2019. Class E to be used for motorway locations as per AS3996:2019		Considered on case by case basis	Use is subject to acceptance by SP						
308			Webforge	Webforge (DCC4D32)		DI - Class D										
309	Maintenance Hole Lightweight Polymeric Lids And Frames (Non-Corrosive)	<b>292</b> 4.1 - ≥DN 600 Round 4.2 - DN600 min clear opening 4.3 - Standard Lifting Key 4.4 - Markings to AS3996 Clause 1.6. 4.5 - Standard packaging 4.6 - No specific markings required 4.7 - Class B and Class D 4.8 - Bolt down for Surcharge and overland flow areas, 2 x M12 min SS316 Bolts 4.9 - As per design	Terra Firma			Composite - Class B and D Class E Ø600 clear opening is acceptable for the locations where Class D Ø600 clear opening is required	Non-Corrosive MH lids and frames are required for all MHs where internal protective coatings are required as per Clause 7.6.2 (i) to (vii) of the Sewerage Code TMR approval may be required on TMR roads	Acceptance yet to be determined	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP					
310			ACO SAKU			Composite - Class B										
311			Prime Composites			Composite - Class B and D										
312			EJ	EJ SERVO		Composite - Class B and D										
313	Alternative Emergency Storage Maintenance Hole Cover	<b>290</b> 4.1 - DN1000 4.2 - Two part round, Sealed Type 4.3 - 920 mm Clear Opening 4.4 - Class C 4.5 - Hand grip lifting points 4.6 - No additional marking requirements 4.7 - Central Hinge not required 4.8 - Standard Packaging and Delivery 4.9 - No specific marking requirements 4.10 - No alternative coating requirements 4.11 - 4 x 3/8" Allen Key SS 316 Bolts 4.12 - As per SP requirements 4.13 - Seat ring SS 316 4.14 - Rocking of cover in frame not permitted	Treloar	MC1000-Manway Cover	DN900	Class C Fabricated S/Steel grade 316 ring Nitrile gasket seal This is an alternative cover to be used where specified to generally, standard Maintenance structure covers, frames and risers shall be used on emergency storage maintenance holes	<b>NOT ACCEPTED BY SP</b>	<b>NOT ACCEPTED BY SP</b>	Considered on case by case basis	Use is subject to acceptance by SP						

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1												
314	Step Irons	<b>314</b> 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	
315			Aymroo	Aymroo								
316			C & C Plastics / Havestock	Posistep								
317			Industrial Steps & Ladders	Sure-Step								
318	Ladders	<b>315</b> 4.1 - Type D - Fixed Ladder with two Stiles 4.2 - PBT, FRP, SS316, Galvanised Steel or Aluminium 4.3 - By Standards 4.4 - By Standards 4.5 - Reflectors optional 4.6 - 150 mm from CL of rung to MH wall 4.7 - By Standards 4.8 - Colour as per material 4.9 - SS 316	Miyama / Nextep	Miyama		Fibre reinforced plastics (yellow). Brackets & Fasteners to be SS316. Min. Clearances for Rung Type Ladders as per AS1657 <i>Fixed Platforms, Walkways, Stairways and Ladders - Design and Installation</i>	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		Use is subject to acceptance by SP	
319			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.
320			Galvanised Steel									Refer to Standard Drawings
321			Aluminium									
322	Stainless Steel										NOT ACCEPTED BY SP	
323	Maintenance Shaft PVC	<b>321</b> 4.1 - As per Standards 4.2 - As per Specifications 4.3 - As per Standards 4.4 - Inlet and Outlet at DN150 to DN225 4.5 - Configurations as shown in Standard drawings 4.6 - As per accepted product 4.7 - Inlet and Outlet Sewer connection RRJ 4.8 - Cap as shown in Standard Drawings 4.9 - As per Standard Drawings 4.10 - Connect to PCV-U DWV pipe 4.11 - Max depth 3.0 metres FSL to Invert of Sewer Pipe	Aymroo	Aymroo	DN300 PVC-U Riser Shaft	Configurations of "Central Axis" maintenance shaft (CAMS) are not accepted		Refer to clause 7.7.2 of the SEQ Sewerage Code		NOT ACCEPTED BY SP	ACCEPTED FOR RIGSS NOT ACCEPTED FOR NUSEWER	
324	Maintenance Shafts PE	<b>322</b> 4.1 - As per Standards 4.2 - As per Specifications 4.3 - As per Standards 4.4.1 - Inlet and Outlet at DN150 to DN225 for PVC RIGSS 4.4.2 - Inlet and Outlet at DN160 to DN250 for PE Nusewer 4.5 - Configurations as shown in Standard drawings 4.6 - As per accepted product 4.7.1 - Inlet and Outlet PVC Sewer connection RRJ 4.7.2 - Inlet and Outlet PE Sewer connection Electrofusion 4.8 - Cap as shown in Standard Drawings 4.9 - As per Standard Drawings 4.10 - Max depth 3.0 metres FSL to Invert of Pipe	Smartstream	Poo-Pit		RIGSS DN300 PVC riser shaft. Nusewer fully welded with DN315 PE risers and sewer stubs	Approved for DN150 to DN225 RIGSS only. Refer Standard Drawing SEQ-SEW-1314 Set for other approved PE MS and MH options	Approved for DN150 RIGSS only. Refer to clause 7.7.2 of the SEQ Sewerage Code	Considered on case by case basis Size range DN150 to DN225 RIGSS only	Max depth of 5.0 meters is acceptable		
325	Maintenance Shafts Polypropylene	<b>341</b> 4.1 - DN425 Corrugated Risers 4.2 - DN425 PP Base, PP Riser, DICL Cone 4.3 - Riser pipe stiffness SN4 4.4 - DN150 or DN225 DWV PVC connections 4.5 - Configurations: In-line, 30° 60° 90° bends, and 4-way 4.6 - Ribbed base and corrugated riser 4.7 - EPDM or SBR Ring Joints RIGSS connections. DN425 4-way riser junction for riser connections. 4.8 - No locking or relief cap 4.9.1 - Top-hat Class B Frame and Cover 4.9.2 - Top-hat Class D Frame and Cover 4.9.3 - Concrete encased cover arrangement Class B (sloped installations) 4.10 Max depth 3.0 meters to Invert of Sewer Pipe, with 5m water table	Iplex	EZlpit PA 09 / 01	DN425	Refer Standard Drawings Wavin Tegra 425 base + EZlpit riser				NOT ACCEPTED BY SP	ACCEPTED FOR RIGSS NOT ACCEPTED FOR NUSEWER	
326		<b>341</b> 4.1 - DN300 Risers 4.2 - PVC Riser 4.3 - SN8 riser pipe 4.4 - DN150 sewer 4.5 - In-line and bends and tees 4.6 - Base ribbed, Riser Solid Wall PVC 4.7 - EPDM or SBR Ring Joints RIGSS 4.8 - Locking relief cap as per Standard Drawings 4.9 - Standard MH surround, cover and frame 4.10 - Max depth 3.0 meters to Invert of Sewer Pipe	SMS		DN300 x DN100to150 DN375 (300 riser) x DN225 DN300 Terminal MS	Refer Standard Drawings				NOT ACCEPTED BY SP	ACCEPTED FOR RIGSS NOT ACCEPTED FOR NUSEWER	
327			REHAU		OD400-GD (Type H12) OD400-RML (Type H13)	Refer Standard Drawings Maintenance structures and associated fittings as per WSAA product appraisal PA 1508						



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328	Maintenance Chambers Polypropylene	337 4.1 - DN600 Corrugated Risers 4.2 - DN600 PP Base, PP Riser, D1CL Cone 4.3 - Riser pipe stiffness SN8 4.4 - DN150, DN225 DWV PVC connections 4.5 - Configurations: In-line, 30° 60° 90° bends, and 4-way 4.6 - Ribbed base and corrugated riser 4.7 - EPDM or SBR Ring Joints RIGSS connections. DN600 4-way riser junction for riser connections. 4.8 - No locking or relief cap 4.9A - Top-hat Class B Frame and Cover 4.9B - Top-hat Class D Frame and Cover 4.9C - Concrete encased cover arrangement Class B (sloped installations) 4.10 - Max depth 3.0 meters to Invert of Sewer Pipe	Iplex	Ezlpit PA 09 / 01	DN600	Refer Standard Drawings Wavin Tegra 600 base + EZlpit riser				NOT ACCEPTED BY SP	ACCEPTED FOR RIGSS NOT ACCEPTED FOR NUSEWER Max depth 6.0 meters to Invert of Sewer Pipe
329		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	Refer Standard Drawings Maintenance structures and associated fittings as per WSAA product appraisal PA 1508		Diameters > DN 600 subject to individual approval		NOT ACCEPTED BY SP	ACCEPTED FOR RIGSS NOT ACCEPTED FOR NUSEWER Max depth 6.0 meters to Invert of Sewer Pipe
330	Maintenance Chambers Polyethylene (PE)	338 4.1 - DN600 PE Riser 4.2 - PE Riser and Cone 4.3 - Riser pipe stiffness SN4 minimum 4.4 - Inlet and Outlet at DN150 to DN225 for PVC RIGSS 4.5 - Configurations as shown in Standard drawings - same as Type J 4.6 - Plain Wall PE Rotomould 4.7 - Inlet and Outlet PVC Sewer connection RRJ 4.8 - No Locking Cap 4.9 - Concrete Spreader slab and 600 MH Cover 4.10 - Max depth 3.0 meters to Invert of Sewer Pipe	Smartstream	Mini pit	DN600				Considered on case by case basis	NOT ACCEPTED BY SP	ACCEPTED FOR RIGSS NOT ACCEPTED FOR NUSEWER
331	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 & DN225 sewers	Refer Standard Drawings.	DN600 Pre-cast pre-benched Channel base and Bowl base Maintenance shafts approved as shown in Standard Drawings	Use of MS is considered on case by case basis	Use of MS is considered on case by case basis	NOT ACCEPTED BY SP	Pre-cast MHs accepted for RIGSS Use of MS is subject to acceptance by SP Pre-cast MHs not Accepted for NuSewer
Rocla				Use for larger Sewer DN's and MH diameters is subject to acceptance by SP.							
Civilmart			Civilmart (BCP Precast)	Max depth of DN600 MS FSL to Invert of Pipe is 3.0 meters.							
332											
333											
334	Pre-Cast Concrete Converter Top Slab	No WSA PS 1 - Refer Standard Drawings	Everhard			Refer Standard Drawings. Calcareous aggregates to be used		Use is Subject to acceptance by SP			Use is Subject to acceptance by SP
335			Civilmart								
336			Australian Quality Precast								
337			Aquarius Precast								
338			First Contact Civil Supplies								
339			Civilcast								
340	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	Acceptance yet to be determined	Considered on case by case basis	Use is subject to acceptance by SP	
341		340 for PP MHs 4.1 - Minimum DN1000 Riser and DN600 neck 4.2 - PP Riser and Cone 4.3 - Riser Pipe Stiffness SN4 4.4 - Nominal sizes as per Standards 4.5 - Configurations as per Standards 4.6 - Ladder as per SP requirements 4.7 - Ribbed base and corrugated riser 4.8 - RRJ connection for RIGSS 4.9 - Colour of internal surfaces as per Standard Product 4.10 - Surface cover and frame as per Standards	Rehau	AWASHAFT	DN1000	Refer Standard drawings Max depth FSL to Invert of Pipe is 3.0 metres Maintenance structures and associated fittings as per WSAA product appraisal PA 1508	Max. depth 6.0 meters to invert of sewer pipe. Not to be used in water charged areas.	Considered on case by case basis Max. depth 6.0 meters to invert of sewer pipe	Use in areas other than road carriageways accepted Max. depth 6.0 metres to Invert of Sewer Pipe	NOT ACCEPTED BY SP	ACCEPTED FOR RIGSS NOT ACCEPTED FOR NUSEWER Max depth 6.0 meters to Invert of Sewer Pipe
342			Iplex	Ezlpit	DN1000	Refer Standard drawings Max depth FSL to Invert of Pipe is 3.0 meters	Use is subject to acceptance by SP				
343	Vent Poles	325 and 326 1 - Project Specific outcome	RPC Technologies			Refer Standard Drawings.	Accepted option is RPC for a GRP pole @ designed height	Accepted option is RPC for a GRP pole @ designed height	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP
344			Ingal EPS			Tapered, Galvanised, height as design.				Accepted Height 12.0 m	
345			McBerns			Preferred colour: heritage or mist green	Use is subject to acceptance by SP	Considered on case by case basis		Use is subject to acceptance by SP	

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		Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
346	SEWERAGE MISCELLANEOUS ITEMS	Valve Box And Cover C.I. & D.I.	No WSA PS 1 - Refer details on SEQ Code Standard Drawing SEQ-WAT-1305-1	Viadux			Refer Water Code Standard Drawings for approved Valve Box and Cover  Class D Cover Bitumen coated to AS 3750.4				Only Class D accepted	
347				NIBF								
348				Gatic / Milne								
349				Civilmart								
350				Hygrade Water	Hygrade Water							
351				Daemco		As per drawing SEQ-WAT-1305-1 Type B						
352		Civil Pipes	Civil Pipes		Use is subject to acceptance by SP							
353		Valve Pit Access Cover And Frame	290 4.1 - 600 x 900 mm (Min.) 4.2 - Solid top, Sealed Type 4.3 - 600 x 900 mm Clear Opening (Min.) 4.4 - Class B for non-trafficable areas and Class D for trafficable areas 4.5 - Lifting Key as per Standard Drawings 4.6 - Markings to AS3996 Clause 1.6 (a) to (f). 4.7 - Hinged (Unitywater requires non-hinged access cover) 4.8 - Standard Packaging and Delivery 4.9 - No specific markings required 4.10 - Standard Coating 4.11 - Bolt down requirement by design 4.12 - Weatherproof (sealed) 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	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP
354				Gatic								
355				Civilmart								
356				Webforge								
357				Hygrade								
358				EJ								
359				Durham								
360				Ducast								
361		Mass Products (Aluminium)										
362		Valve Pit Lightweight Polymeric Lids And Frames (Non-Corrosive)	292 4.1 - 600 x 900 mm (Min.) 4.2 - 600 by 900 mm Clear Opening (Min.) 4.3 - Standard Lifting Key 4.4 - Markings to AS3996 Clause 1.6 (a) to (f) 4.5 - Standard packaging 4.6 - No specific markings required 4.7 - Class B for non-trafficable areas and Class D for trafficable areas 4.8 - Bolt down requirement by design 4.9 - As per Design	Prime Composites			Refer Standard Drawings SEQ-SPS-1602-1 and SEQ-SPS-1606-1	Use is subject to acceptance by SP	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP
363				EJ								
364				Terra Firma								
365				ACO SAKU								
366		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		
367				Crevet								
368		Embedment Material - Crushed Rock	351 4.1 - Single sized 4.2 - Nominal 5 or 7 mm									
369				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
370		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									
371				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
372		Gas Release Valves	275 Refer Appendix B of AS4883 4.1 - Size of Valve - DN50 BSP, DN50 to DN200 Flanged. 4.2 - Class of valve - PN16 4.3 - Type of Port - Full and Reduced port 4.4 - Type of Valve - As per design needs 4.5 - Hydraulic Data - By design to AS4883 Appendix B			ARI Flow control		DN50 to DN200	PN16, Anti Slam as required, Thermal bonded polymeric coating or 316 Stainless steel	DN225 and larger mains to only use Vinloc-Smartvalve	NOT ACCEPTED BY SP	Considered on case by case basis
373				Bermad								
374				Vent-O-Mat								
375				AVFI	ARV-3-N							
376				ISCO	Vent Master PX							
377	Odour Technologies			Vinloc-Smartvalve								
378	Non-Return Valves - Swing Check With Counterweight Lever Arm	264 Refer Appendix B of AS4794 4.1 - Class PN16 min 4.2 - Size by Design 4.3 - Medium - Sewage 4.4 - Installation - Horizontal 4.5 - Spindle - Extended 4.6 - Lever and Counterweight minimum with switches and indicators by Design 4.7 - Flanged to AS 4087 Figure B5	HMA Flow & Industrial	Valmatic Swing-flex	DN50 to DN600	MIN. PN16, Thermal bonded polymeric coating	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
379			Dobbie Dico	Dobbie Dico	DN80 to DN900							
380			AVK	AVK Swing Check Valve 41 / 25	DN50							
381			AVK	AVK Swing Check Valve 41 / 8X	DN80 to DN300							
382			Challenger Valves	Challenger - RSSC	DN80 to DN375							
383	AVFI Pty Ltd	AVFI - RSSC	DN50 to DN300	NOT ACCEPTED BY SP								
384	Non-Return Valves - Free Acting (Without Counterweight) Swing Check	264 Refer Appendix B of AS4794 4.1 - Class PN16 min 4.2 - Size by Design 4.3 - Medium - Sewage 4.4 - Installation - Horizontal 4.5 - Spindle - Extended 4.6 - Flanged to AS 4087 Figure B5	HMA Flow & Industrial	Valmatic Swing-flex	DN50 to DN600	MIN. PN16, Thermal bonded polymeric coating	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
385			Dobbie Dico	Dobbie Dico	DN80 to DN900							
386			AVK	AVK Swing Check Valve 41 / 25	DN50							
387			AVK	AVK Swing Check Valve 41 / 8X	DN80 to DN300							
388			Challenger Valves	Challenger - RSSC	DN80 to DN375							
389	AVFI Pty Ltd	AVFI - RSFC	DN80 to DN600	Considered on case by case basis	NOT ACCEPTED BY SP							

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1												
390		PVC-U Fabricated Fittings Fibreglass Reinforced PVC Type 'D' Junctions & Fittings	<b>230</b> 4.1 - Plain Wall 4.2 - Solvent Cement joints for Fabricated assemblies with Elastomeric Seal on Fitting Socket Ends 4.3 - Pipe DN100 @ SN10 min and Pipe DN150 and larger SN8 min. Fittings SN6 min 4.4 - SBR & EPDM 4.5 - Heavy Duty fittings are separately listed	Vinidex	Deep Sewer Junction & Reinforced Fittings such as Oblique Junctions and House Connection Bands and Inspection Tees	DN100 to 300	DWV uPVC Moulded Fitting reinforced to SEQ Standards.				NOT ACCEPTED BY SP	DN100 at SN10, DN150 and larger at SN8 and Fittings at SN8 minimum
391	Iplex			Type D Junction from moulded fittings welded and fibreglass wrapped.								
392	Holman Industries			45 Deg Oblique Jn and Property Connection bands and Inspection Tees fibreglass wrapped.								
393	M.E. Christensen			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.								
394		PVC-U SN8 Long Radius Bends	<b>236</b> 4.1 - SN8 minimum 4.2.1 - DN150 only, 3.0 metres radius as a heat formed bend with standard socket and spigot RRJ ends. No ovality variation permitted. 4.2.2 - DN225 only, 3.0 metres radius preferred, spigot spigot ends as a heat formed bend or as a fibreglass wrapped fabricated bend with 7.5 degree segments with 300 mm to 400 mm segment length on inside springline 4.2.3 - All long radius bends by Certified fabricators to AS/NZS 1260 Section 6 4.3 - SBR & EPDM	Vinidex	Long radius 3000 mm bends	DN150 as bent pipe & DN225 as bent or fabricated pipe	AS/NZS 1260 SN8.				NOT ACCEPTED BY SP	
395	Iplex			DN150 Bends available from 5Deg to 45Deg.								
396	Tri Underground			DN225 and larger individually fabricated to 45Deg.								
397	Holman Industries											
398			M.E. Christensen									
399		PVC-U Fully Moulded SN8 And SN10 Heavy Duty Junctions, Bends And Inspection Tees	<b>230</b> 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 & DN150	Currently approved are: Heavy duty RRJ Junctions (45 degree), bends (43, 45 and 88 degrees) and inspection tees for property connections				Use is subject to acceptance by SP	
400	Plastec			Plastec			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					
401		Fully Moulded Heavy Duty DWV RRJ Slip Coupling	<b>230</b> 4.1 - Plain wall 4.2 - RRJ 4.3 - Min SN10 for DN100 and SN8 for DN150 and larger 4.4 - NBR or SBR or EPDM 4.5 - Heavy duty fittings shall be used 4.6 - One piece fully moulded 4.7 - Fibre reinforcement is not required	Holman Industries	Holman / Fabfit	DN150	SN rating (SN8 or SN10) and letters "Heavy Duty" (Super Duty) shall be imprinted on the surface of fittings.  This one piece fully moulded fitting is to be used for Type A and B sewer property connections.	Use is subject to acceptance by SP		Considered on case by case basis	Use is subject to acceptance by SP	
402		PVC-U Heavy Duty Maintenance Hole Inspection Bends	<b>230</b> 4.1 - Plain wall 4.2 to RRJ 4.3 - Min SN10 for DN100 and SN8 for DN150 and larger 4.4 - NBR or SBR or EPDM 4.5 - Heavy duty fittings shall be used 4.6 - Two moulded pieces welded by factory 4.7 - Fibre reinforcement is not required	Plastec	Plastec	DN100 RRJ/Sp (#19712) DN150 RRJ/Sp (#19714) DN150 Sp/Sp (#20041)	SN rating (SN8 or SN10) and letters "Heavy Duty" (Super Duty) shall be imprinted on the surface of fittings.  This fitting is to be used for maintenance hole internal drops.  DN150 Sp/Sp (#20041) is to be used for retrofitting on AC sewers only.				Use is subject to acceptance by SP	
403		Detectable Marker Tape	<b>318</b> 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	421							
404	Tapex			Use is subject to acceptance by SP								
405	Rain Harvesting											
406	Wenac											
407		Tracer Wire	<b>343</b> 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 & 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					
408		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	
409		Hydrophilic Seal			Hydrotite				Use is subject to acceptance by SP	Acceptance yet to be determined	Considered on case by case basis	Use is subject to acceptance by SP
410					KuniSeal C-31 DS							

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1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
411	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 & 125 mm	For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes	Use is subject to acceptance by SP		Considered on case by case basis	Use is subject to acceptance by SP	
412				HD Series	Runner height of 30, 50, 75 & 100mm 110mm OD to 355mm OD (untogroated annulus). May be used on carrier pipe diameters greater than 355mm OD where the annulus will be grouted	For SCL, DI, PE, PVC and GRP carrier pipes					
413				HDXT Series	Runner heights of 43mm, 58mm, 63mm, 103mm, & 153mm, suitable for carrier pipes with outside diameters from 300mm to 3000mm.	For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes					
414	Kerb Markers	248 4.1 - SS, Copper Alloy 4.2 - S, IV, GV, SV, VV, RM 4.3 - Circular 4.4 - 19mm 4.5 - 40mm diameter				As per SEQ-SEW-1103-3 and SEQ-SPS-1508-2	Use is subject to acceptance by SP		Stainless Steel <b>SP USE ONLY</b>	Only Brass markers accepted Stainless Steel markers <b>SP USE ONLY</b>	
415	Camlock					S/Steel 316				Maximum DN100	
416	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
417			Agrusafe								
418			Bluey Technologies								
419			AKS								
420	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 to this requirement overrides Note G14 on SEQ-SPS-1402-1.	Considered on case by case basis (minimum 2.0 mm thickness) Only cementitious or epoxy mortars to be used on existing concrete structures. (Mortar coating minimum 25mm thick)	Considered on case by case basis (minimum 2.0 mm thickness) Only cementitious or epoxy mortars to be used on existing concrete structures. (Mortar coating minimum 25mm thick)	Use is subject to acceptance by SP Only cementitious or epoxy mortars to be used on existing concrete structures. (Mortar coating typically 25mm thick)	Use is subject to acceptance by SP (minimum 2.0 mm thickness)	
421				Epigen 1311 Ultra							
422			Sika Australia	Sikagard - 63N							
423			Hychem Epoxy Systems	Hychem TL5							
424			International Paints	Celcoat 2000 Flakeline							
425			ITWPF	Epirez 733UHB							
426			Feroco / JDP Applications	Ultrackoat Epoxy Coating							
427			Interflow	Interchem CAC							
428			BASF	MasterSeal 7000CR							
429			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
430		Parchem	Sewpercoat		Use is subject to acceptance by SP						
431	Protective External Coating	No WSA PS (refer WSA 201 Manual for Selection and Application of Protective Coatings) SEQ SPs requirements: 1 - Two Component solvent free polyurethane 2 - Suitable for provision of single coats >=0.6mm thick 3 - Excellent stated resistance to Sulphuric Acid via Test results 4 - Minimum 15 minute Pot Life at 20 degrees C 5 - Light coloured 6 - Applied to manufacturers requirements 7 - Combined 10 year warranty from Applicator and Manufacturer	Steuler KCH	Oxydur PTB	Colour white to grey & heritage green	Use is subject to acceptance by SP. External coatings at min 0.3 mm thick dry film via single coat. Sulphuric Acid Resistance to suit site conditions. SP Approved Equivalents are the listed Internal coatings	Considered on case by case basis (minimum 2.0 mm thickness) Refer Item 3 in Column C	Considered on case by case basis (minimum 2.0 mm thickness)	Use is subject to acceptance by SP	Use is subject to acceptance by SP (minimum 2.0 mm thickness)	
432	Precast Concrete Packaged Sewage Pumping Stations	No WSA PS 1 - Suppliers to manage the project and to coordinate the construction	Aquatec		DN2.25m & DN3.20m	To be used for reticulation systems only (not for trunk sewers) Subject to geotechnical conditions (e.g. not be used for water charged areas)	Accepted as per Aquatec CoGC version drawing sets 2019.COGC.STD.2250.01 to 07 and 2019.COGC.STD.3200.01 to 07 submitted on 22/11/2019	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	DN1.80m DN2.25m DN3.20m and DN3.60m Use is subject to conditions - Refer to UW Technical Note Pr11096
433			Xylem		DN1.80m, DN2.20m & DN3.0m	Accepted as per Xylem CoGC version drawing set Sheet 1 to Sheet 13 submitted on 22/11/2019				DN1.80m DN2.20m DN3.00m and DN3.80m Use is subject to conditions - Refer to UW Technical Note Pr11096	
434			Q-Max		DN2.20m, DN3.20m & DN3.6m	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	DN2.20m, DN 3.20m and DN3.60m Use is subject to conditions - Refer UW Technical Note Pr11096

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Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
<b>Category: WATER SUPPLY PIPES - PRESSURE</b>											
435	PVC-M Pipe	209 4.1 - PN16 4.2 - Drinking Water 4.3 - Series 2 only 4.4 - Blue 4.5 - SBR & EPDM	Iplex	RHINO	DN100 to DN450 (Not 225)	Rieber ring accepted				Only accepted where PE is unsuitable	NOT ACCEPTED BY SP
436			Vinidex	Hydro							
437			Viadux	Plaspipe							
438			Micron Pipelines	Micron Pipelines	DN100 to DN300 (Not 225)						
439	PVC-O Pipe	210 4.1 - PN16 4.2 - MRS400 or MRS450 4.3 - Water main 4.4 - Series 2 only 4.5 - SBR & EPDM 4.6 - Pipe colour: Blue for Drinking Water and Purple for No-Drinking Water (refer POP203)	Iplex	Apollo Blue	DN100 to DN300 (Not 225)	Series 2 PN16, Min SN 10 MRS400 or MRS450	NOT ACCEPTED BY SP	SP USE ONLY	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	DN100 to DN300 Accepted (DN225 for SP use only)
440			Pipemakers	Pipemakers Enviromain	DN100 to DN300 (Not 225)						
441			Vinidex	Supermain							
442			Micron Pipelines	Micron Pipelines	DN100 to DN375 (Not 225)						
443	DI Pipe	200 4.1 - All Pressure Classes - see Column G 4.2 - As per SP's requirements to see Column H-L 4.3 - As per accepted product 4.4 - All pipes to be polyurethane or Zn-Al alloy and epoxy coated. 4.5 - Restraint Joint Seals by SP approval 4.6 - SBR & EPDM 4.7 - PE sleeving is required on ALL DI pipes unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	Vinidex	ZAP-GP	DN250 to DN750 (not 225)	PN 20	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Considered on case by case basis	NOT ACCEPTED BY SP	Seal coat requirement is dependant on water quality. PN20 - Use is subject to acceptance by SP
444			Clover Pipelines	Clover / Xinxing (ZnAIRE400)							
445			Jindal SAW / Iplex	Jindal SAW	DN100 to DN750 (not 225)						
446			Xinxing / Iplex	Irontite (XINAL400+ coating)	Up to DN750 (not 225)						
447	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	Vinidex	ZAP-GP	DN100 to DN750 (not 225)	PN 35 and Flange Class, GP or SR lining	Seal coat on all pipe sizes	Seal coat on pipes >= 450	Seal coat on pipes >= 450	Accepted where PE is unsuitable for reticulation mains. Accepted for mains > 300 NB. Seal coating required for all sizes.	Use of Clover Pipelines and Beaver-Jindal is subject to acceptance by SP
448			Saint-Gobain	PAM / TYTON Hydroclass Zinalium							
449			Viadux	DIMAX / TYTONXCEL Z+	DN100 to DN750 (not 225)						
450			Clover Pipelines	Clover / Xinxing (ZnAIRE400)	DN100 to DN300 (not 225)						
451	Small DN Ductile Iron Water Main Pipe At PE ODs	No WSA PS 1 - PN16 minimum	Clover Pipelines	Clover / Samsun	DN100 to DN300 (not 225)	PN35 and Flange Class	Use is subject to acceptance by SP			Accepted where PE is unsuitable for reticulation mains. Accepted for mains > 300 NB. Seal coating required for all sizes.	Use is subject to acceptance by SP
452			Reece / Viadux	DIMAX / TYTON XCEED Z+	DN100 to DN750 (not 225)						
453			Jindal SAW / Iplex	Jindal SAW	DN100 to DN750 (not 225)						
454											
455	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	Vinidex		DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200	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
456			David Moss Corporation	DAMOS	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200						
457			Cromford	Identl-pipe	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450						
458			Poly Pipe		DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800						
459	PE Pipe	207 4.1 - PN16 4.2 - Drinking and Non-Drinking Water 4.3 - Coil pipe permitted up to DN125 with pipe lengths for larger DN 4.4 - Black with Blue stripes or solid Blue colour for Drinking Water and Black with Purple stripes or solid Purple colour for Non-Drinking Water, refer POP203. 4.5 - PE100 only	Iplex		DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800	PE100 PN16. Blue colour - solid or striped for drinking water. Purple colour - solid or striped for non-drinking water. For directional drilling installations, minimum SDR 9 (PN20 PE100) unless specified otherwise and install with tracer wire. Pipe wall thickness to be designed for installation forces. Butt welded joints are mandatory for HDD construction where continuous pipes on coil are not available	1 - Used as Water Service pipe at DN25 and larger 2 - Used as Drinking Water main at DN63 and DN110 in Dual Water Supply 3 - Used as A+ Non Drinking Water main for Cu-de-sac terminal end at DN63 in Dual Water Supply 4 - Used as Drinking Water main for Cu-de-sac terminal end at DN63 in traditional Drinking Water Reticulation	Approved for water services and water mains <= DN63 only. Other uses, or the use of larger diameters, are considered on case by case basis	Considered on case by case basis	PE is preferred pipe material for reticulation mains in single and dual water supply systems - PE shall be used for reticulation mains unless specific site conditions dictate otherwise. Either solid or striped colours are permitted for single and/or dual water supply systems.	NOT ACCEPTED BY SP
460			Vinidex		DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200						
461			Enviropipes	Enviropressure	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000						
462			ACP	ACP	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315						
463	PE Pipe	207 4.1 - PN16 4.2 - Drinking and Non-Drinking Water 4.3 - Coil pipe permitted up to DN125 with pipe lengths for larger DN 4.4 - Black with Blue stripes or solid Blue colour for Drinking Water and Black with Purple stripes or solid Purple colour for Non-Drinking Water, refer POP203. 4.5 - PE100 only	Pipemakers	Pipemakers	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP
464			Clover	Clover / Rohr	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800						
465			Acu-Tech	Acu-Tech							
466			ASA	BlueLine	DN25, 32, 40, 50, 63, 90, 125						



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1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
473	PE Pipe - High Stress Crack Resistant (HSCR) Polyethylene Pipe	<b>207, POP016</b> 4.1 - PN16 minimum 4.2 - Drinking and Non-Drinking Water 4.3 - Coil pipe permitted up to DN125 with pipe lengths for larger DN 4.4 - Black with Blue stripes or solid Blue colour for Drinking Water and Black with Purple stripes or solid Purple colour for Non-Drinking Water, refer POP203. 4.5 - HSCR PE100 only	Iplex	Millennium HSCR PE	DN25 32 40 50 63 90 125 180 250 315 355 450 560 630 800	For directional drilling and pipe bursting installations, minimum SDR 9 (PN20 HSCR PE100) unless specified otherwise and install with tracer wires.  Pipe wall thickness to be specified as normal PE100 as such "extra" strength should be provided.  Butt welded joints are mandatory for HDD construction where continuous pipes on coil are not available.	1 - Used as Water Service pipe at DN25 and larger 2 - Used as Drinking Water main at DN63 and DN110 in Dual Water Supply 3 - Used as A+ Non Drinking Water main for Cul-de-sac terminal end at DN63 in Dual Water Supply 4 - Used as Drinking Water main for Cul-de-sac terminal end at DN63 in traditional Drinking Water Reticulation	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP
474			Acu-Tech	Acu-Tech							
475			David Moss Corporation	DAMOS	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200						
476			Vinidex		DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200						
477			Enviropipes	Enviropipes	DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000						
478	Copper Pipe	<b>214</b> 4.1 - Annealed for all pipe 4.2 - Natural pipe colour	MM Kembla	Kembla		Type A	Use is subject to acceptance by SP	Type B accepted	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP
479	CC-GRP (Centrifugally Cast) Pipe And Fittings - Water Main	<b>237</b> 4.1 - PN16 minimum 4.2 - SN 10,000 minimum 4.3 - Sp-Sp RRJ Coupling and FI Joints 4.4 - Standard Glass 4.5 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN400 to DN1400	Minimum SN10000, PN16	Acceptance yet to be determined DI Fittings preferred	Considered on case by case basis DI Fittings preferred	Considered on case by case basis DI Fittings preferred	Use is subject to acceptance by SP	Use is subject to acceptance by SP
480	FW-GRP (Filament Wound) Pipe And Fittings - Water Main	<b>205</b> 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	RPC Pipe Systems / Reece	Flowtite	DN300 to DN3000	Minimum SN10000, PN16	Considered on case by case basis	Considered on case by case basis DI Fittings preferred	Considered on case by case basis DI Fittings preferred	Use is subject to acceptance by SP	Considered on case by case basis
481			Global Pipe	Fiberstrong	DN300 to DN4000		Acceptance yet to be determined				
482			Superlit / Clover Pipelines	Superlit	DN300 to DN3000		DI Fittings preferred				
483	Stainless Steel Pipe	<b>No WSA PS</b> 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 <b>No WSA PS</b> 1 - WSAA Materials Fact Sheet No:2 Selection of Stainless Steels for Use in the Water Industry. 2 - WSAA Materials Fact Sheet No:3 Stainless Steel Fabrication. 3- WaterMark acceptance. 4- ASSDA accredited fabricator.	ASSDA accredited fabricators	N / A	DN20 to DN750	Min. Grade 316. Min. PN16. Flange to AS4087 Fig B5	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
484			MM Kembla	KemPress	DN15 to DN100	Min. Grade 316 Min. PN16					
485	Stainless Partially Corrugated Tube (SPCT)	<b>No WSA PS</b> 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- As per ASTM A1119/A1119M-23a	IniM / Cortube Stainless Systems		DN15 to DN50	Min. Grade 316	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	SP USE ONLY

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Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater		
<b>Category: WATER SUPPLY FITTINGS - PRESSURE</b>												
486	Lightweight DI Bends, Tees/Branches & Connectors	201 4.1 - Soc-Soc, Soc-Fi & Fi-Fi 4.2 - Thinner wall Min PN16 fittings 4.3 - Restraint Joint Seals by SP approval 4.3 - SBR & EPDM	Viadux	Auslite and Sureflow (Light)	DN80 & DN150	Lightweight fittings - specific brand or word Lightweight or equivalent must be marked on each fitting  Thermal bonded polymeric coating.  All DI fittings to be wrapped		Acceptance yet to be determined		Acceptance yet to be determined	Use of Restrained Joint Rubber Rings (Tyton-lok) subject to acceptance by SP	
487			Dobbie Dico	Dobbie Series G2	DN100 to DN150							
488			Himgiri Castings / Galvin Engineering / CivilPipes	Ezy-Lift	DN100 & DN150							
489			Clover Pipelines	Clover	DN100 to DN150							
490			Reece	DIMAX (Lightweight)	DN80 to DN150							
491			Gillies / Hygrade	Gillies CL or Gillies LW	DN80 to DN150							
492			Derwent	Derwent (plus A or J or M)	DN80 to DN150							
493			AVK	Series 718 (Light)	DN80 to DN150							
494	Crevet / Iplex	Crevet (1BS or BS or LW)	DN80 to DN150									
496	DI Bends, Tapers, Tees/Branches, Connectors, Risers & Caps/Blank Ends	201 4.1 - Soc-Soc, Sp-Sp, Fi-Fi, Soc-Sp, Soc-Fi & Sp-Fi 4.2 - PN35 wall thickness for all fittings including PN16 flanged fittings 4.3 - Restraint Joint Seals by SP approval 4.4 - SBR & EPDM	Viadux	Tyton Joint & Sureflow (not Light)	DN80 to DN750	Traditional fittings  DN225 not accepted  Thermal bonded polymeric coating.  All DI fittings to be wrapped		Acceptance yet to be determined	Fi-Soc & Fi-Sp Connectors accepted up to DN375	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-lok) subject to acceptance by SP	
497			Crevet / Iplex	Crevet (not 1BS or BS or LW)	DN80 to DN750							
498			Vinindex	Superlink (not Superlink II)	DN300 to DN750 (not DN80 to DN250)							
499			Derwent Industries	Derwent (plus A or J or M)	DN200 to DN750 (not DN80 to DN150)							
500			Gillies / Hygrade	Gillies	DN80 to DN300							
501			Himgiri Castings / Galvin Engineering / CivilPipes	Galvin	DN80 to DN300							
502			Dobbie Dico	Dobbie Series G1 (not series G2)	DN100 to DN250							
503			Mallet	Mallet	DN80 to DN750							
504			Daemco	Daemco	DN80 to DN375							
505			Reece	DIMAX	DN200 to DN300 (not DN80 to DN150)							
506	AVK	Series 718 (not Light)	DN80 to DN750									
507	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 Eziqib & 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				
508			Crevet	Gibault & Universal Multigib								
509			AVK	Gibault & Universal								
510			AVK	AVK Supa-Gib Couplings								Up to DN675
511			Viking Johnson	MaxiFit, QuickFit								
512			Derwent Industries	Derwent								DN100 to DN300
513			DEKS	DEKS FLEXI-GIB								DN80 to DN750
514			Daemco	Reiniversal								Up to DN600
515	Clover Pipelines	Connect VPC	DN100 to DN600									
516	Civil Pipes	CPS Uni-Gib	DN80 to DN300									
517	Stainless Steel Flexible Couplings - Unrestrained	285 4.1 - Unrestrained for DI, AC, PVC, steel, GRP and concrete pipes 4.2 - PN16 min	Uniones Arpol SA / Global Pipe	ARPOL	DN150 to DN1200	Arpol Instal for joining pipes and Arpol Rep for pipe repairs.  Required torque as per manufacturer's requirement marked on each fitting		Considered on case by case basis	ARPOL INSTAL - Accepted ARPOL REP - <b>SP USE ONLY</b>	Use is subject to acceptance by SP	Use is subject to acceptance by SP	

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518	DI Mechanical Couplings - End Thrust Restraint (Gripper Type)	<p><b>271</b></p> <p>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 &amp; EPDM &amp; 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</p>	Hawle / Hygrade Water	Synoflex PN16 Restraint	DN50 to DN300	<p>Synoflex is manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DN may not suit the same pipe DN for some pipe materials and sizes (e.g. DN200 CIOD pipes). In this case a larger gripper socket DN may need to be used. Contractors need to check the suitable gripper socket DN for their pipes.</p> <p>Does not require pipe stiffener inserts to be installed for PN16 (SDR 11) PE100 pipe.</p>	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater															
519			Georg Fischer	Multi / joint 3000 Plus restraint		<p>Georg Fischer 3000 Plus is manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DN may not suit the same pipe DN for some pipe materials and sizes (e.g. DN200 CIOD pipes). In this case a larger gripper socket DN may need to be used. Contractors need to check the suitable gripper socket DN for their pipes.</p> <p>Requires pipe stiffener insert to be installed when connecting to PE or PVC pipe.</p>						SP USE ONLY	The use of gripper type fittings on AC, DI and SCL pipe subject to acceptance by SP													
520			AVK / Fusion Plast Australia	Supa-Maxi	<p>AVK Supa-Maxi is manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DN may not suit the same pipe DN for some pipe materials and sizes (e.g. DN200 CIOD pipes). In this case a larger gripper socket DN may need to be used. Contractors need to check the suitable gripper socket DN for their pipes.</p> <p>Requires pipe stiffener insert to be installed when connecting to PE or PVC pipe.</p> <p>The PE transition couplings rated PN10 are not accepted.</p>	SP USE ONLY Not accepted for use on PVC and GRP pipes End cap shall be used with thrust block								Use is subject to acceptance by SP												
521			Nova Siria / Hygrade Water	Multigrip	DN350 to DN1400										<p>Requires pipe stiffener insert to be installed when connecting to PN16 (SDR 11) PE100 pipe.</p>	Use is subject to acceptance by SP	Considered on case by case basis	Redland City Council	Urban Utilities	Unitywater						
522			Viking Johnson	UltraGrip	DN100 to DN300										<p>Requires pipe stiffener insert to be installed when connecting to PN16 (SDR 11) PE100 pipe.</p>						Not approved for use in acid sulphate soils and saline coastal environments					
523			Hawle / Hygrade Water	System 2000	DN63 to DN355										<p>Does not require pipe stiffener inserts to be installed on PN16 (SDR 11) PE100 pipe.</p>							SP USE ONLY	Use is subject to acceptance by SP			
524			AVK	Supa Plus Restraint	DN63 to DN315										<p>Requires pipe stiffener inserts to be installed</p>									AVK SupaPlus restraint Couplings is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations		
525			Viking Johnson	Aquafast and Aquagrip Restraint											<p>Aquafast does not require pipe stiffener inserts to be installed on PN16 (SDR 11) PE100 pipe.</p> <p>Aquagrip Restraint coupling requires pipe stiffener inserts to be installed on PN16 (SDR 11) PE100 pipe.</p>											
526			Daemco	Xcel Restrained Coupling and Flange Adaptor	DN63 to DN315 for Coupling & DN63 to DN315 for Flange Adaptor										<p>Does not require pipe stiffener inserts to be installed for PN16 (SDR 11) PE100 pipe.</p>										Use of Daemco Xcel Restrained Couplings is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations	
527			Victaulic Piping Products	Victaulic Restrained Couplings Style 905	Up to DN225										<p>Does not require pipe stiffener inserts to be installed for PN16 (SDR 11) PE100 pipe.</p>											Acceptance yet to be determined

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528	DI Flanged Telescopic Flexible Fitting	No WSA PS 1 - Aligned to WSA PS-201 and WSA PS-270 with Flanges to AS 4087 Figure B5 2 - To comply with WSA PS-201S when published	Hawle / Hygrade Water	Vario	DN50 to DN200		SP USE ONLY			SP USE ONLY		
529	Small DN Ductile Iron Restraint Fittings At PE ODs	No WSA PS 1 - PN16 minimum	Saint-Gobain PAM	IZIFIT	DN75 to DN160	For use directly with PE and BLUTOP pipe.	Use is subject to acceptance by SP	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
530	Pretapped Connectors	201 4.1 - Soc-Soc only 4.2 - Standard PN16 fittings 4.3 - Restraint Joint Seals by approval 4.4 - SBR & EPDM	Derwent	Derwent	DN100 to DN300	Thermal bonded polymeric coating DN100 to DN150 with 4 x 20BSP tappings at 2 per side and DN200 to DN300 1 x 50BSP tapping	NOT ACCEPTED BY SP Based on the recent Australian Standards changes all the current pre-tapped connectors are non-compliant therefore not accepted until new designs are available. Instead the accepted tapping bands can be used as an interim solution.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use of pretapped connectors is under review	
531			Clover Pipelines	Clover	DN100 to DN150					Acceptance yet to be determined		Acceptance yet to be determined
532			Viadux	Readytap	DN100 to 300							
533			Crevet / Iplex	Pretapped	DN100 & DN150							
534			Vinindex	Superlink	DN100 & DN150							
535			Himigiri Castings / Galvin Engineering / CivilPipes	Galvin	DN100 & DN150							
536			Daemco	Daemco	Up to DN300							
537	Viadux / Reece	DIMAX MaxiTap	DN100 to DN300									
538	316 Ss Repair Clamps, Flanged Off-Take Clamps & Bsp Tapping Clamps	313 4.1 - Type R, Type F or Type R and Type F by SP approval 4.2 - Pipe DN by SP approval 4.3 - Off-take DN by approval 4.4 - Min. PN16	Crevet	Wang	DN100 to DN300	Flanged off-take clamps approved are Type R for DI, AC and CI host pipes and Type F for PVC-m, PVC-u only, to pipe manufacturers specifications. Host pipe to be of suitable condition.	Use is subject to acceptance by SP	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	Type R accepted only In acid sulphate soils the clamp must be Denso wrapped.	
539			Viadux	Wang	DN100 to DN300							
540			Cascade Control	Rapid Clamps	DN40 to DN350							
541			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) to all other sizes are Type R only.
542			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.
543			Derwent		Up to DN300					Only Type R repair clamps accepted.		
544			Cascade Control	Rapid Clamps CT2 tapping saddles	DN125 to DN355					Use is subject to acceptance by SP		
545	Flange (DI) Off-Take Clamps For DIOD Pipes	313 4.1 - Type R, Type F or Type R and Type F by SP approval 4.2 - Pipe DN by SP approval 4.3 - Off-take DN by approval 4.4 - Min. PN16	Derwent	Uniclamp	DN100 & DN150	Flanged off-take clamps approved Type R for DI, AC and CI host pipes and Type F for PVC-m, PVC-u only, to pipe manufacturers specifications. Host pipe to be of suitable condition.	Type R and Type F accepted Accepted to be used where under pressure connection is approved by SP		SP USE ONLY	Only DN100 flange offtake accepted		
546	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	DN300 to DN2000		Use is subject to acceptance by SP	Considered on case by case basis	SP USE ONLY	Use is subject to acceptance by SP		
547			Hygrade Water Australia	cQuick Encapsulation Repair collar	DN80 to DN200							
548			AVK	Series 208 Encapsulation Repair collar	DN80 to DN200							
549	Flange DI Off-Take Clamps	310 4.1 - Pipe DN63 and larger (see WSA PS 207) - Off-take ID 20 mm minimum 4.2 - With or without electrical Isolation 4.3 - Female Rp thread to AS ISO 7.1	Hawle / Hygrade Water	Haku	DN110 to DN355	For use on PE pipe only, installed and commissioned in accordance with manufacturers recommendations	Accepted to be used where under pressure connection is approved by SP	Considered on case by case basis	SP USE ONLY	Where fitting is used as a hydrant tee, fitting is to be installed as an under pressure cut-in connection		
550			Derwent	Uniclamp	DN125 & DN180							

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551	Resilient Seated Gate Valves, Thermal Bonded Polymeric Coating.	<p><b>260</b></p> <p>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 &amp; EPDM                      4.10 - Stiffener inserts for PE pipe as per manufacturers requirements                      4.11 - For Urban Utilities, RSGVs shall only be used on mains ≤ 300 NB</p>	AVK	Series 57 (light type only for DN100 & 150) Series 570 (Lead Free)	Up to DN400 Up to DN600 DN80 to DN300 (FI-FI & Soc-Soc) DN450 to DN600	<p>Anchor legs approved</p> <p>All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted</p> <p>All DI fittings to be wrapped</p>	DN500 and DN600 with DN100 By-pass DN750 with DN150 By-pass	FI to Soc valves are not accepted FL-FL integral bypass valves are considered on case by case basis		Use is subject to acceptance by SP			
552			Hawle / Hygrade Water	E2 System 2000	DN100 to DN200 DN150 to DN300								
553			Hawle / Hygrade Water	E3 (FL-FL)	DN100 to DN300								
554			Viadux	Series 500 Auslite Auslite II Bayard Sureflow Auslite III	Up to DN600 DN80, 100 & 150 DN100 to DN300 DN50 to DN200 Up to DN600								
555			Karon / Challenger	Karon (FL-FL light weight design) Karon (FL-FL integral bypass valves)	DN80 to DN300 DN450 to DN600				Use of Karon / Challenger (FL-FL light weight design) is subject to acceptance by SP	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is considered on case by case basis	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is considered on case by case basis	Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP	
556			AVFI		DN80 to DN600							Use is subject to acceptance by SP	NOT ACCEPTED BY SP
557			Betta	BETTA	DN80 to DN600								
558			AAP Industries	Maxiflo / appFLO	DN80 to DN300								
559			Derwent Industries	Derwent	DN80 to DN600								
560			DAEMCO		DN80 to DN300 for Soc-Sp DN80 to DN375 for FL				DN500 and DN600 with DN100 By-pass DN750 with DN150 By-pass	FI to Soc valves are not accepted FL-FL integral bypass valves are considered on case by case basis			
561			Reece	DIMAX	DN80 to DN600 (FI-FI) DN450 to DN600 (FI-FI with bypass) DN100 to DN300 (Soc Soc) DN100 to DN300 (Sp-Sp) DN100 to DN150 (FI-Soc)								
562			Resilient Seated Gate Valves, Thermal Bonded Polymeric Coating.	<p><b>278</b> (RSGVs with PE tails)</p> <p>4.1 - PN16                      4.2 - Anti-Clockwise closing                      Configurations accepted                      4.3 - No requirement for spindle cap colour                      4.4 - Extension Spindle to WSA PS - 262                      4.5 - Spindle Cap required                      4.6 - Integral By-pass on DN450 and larger (Not accepted by Unitywater and Urban Utilities)                      4.7 - For Urban Utilities, RSGVs shall only be used on mains ≤ 300 NB</p>	AVK		Series 36 / 80	Up to DN300	<p>All valves shall be restrained. All DI fittings to be wrapped.</p>		<p>NOT ACCEPTED BY SP</p>		
563	Betta	Betta			DN100 & DN150								
564	Reece	DIMAX			DN100 & DN150					Acceptance yet to be determined		Acceptance yet to be determined	Acceptance yet to be determined
565	Resilient Seated Gate Valves, Thermal Bonded Polymeric Coating.	<p><b>281</b> (RSGVs with restrained/gripper ends)</p> <p>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 &amp; EPDM                      4.7 - Stiffener inserts for PE pipe as per manufacturers requirements                      4.8 - Integral By-pass on DN450 and larger (Not accepted by Unitywater and Urban Utilities)                      4.9 - For Urban Utilities, RSGVs shall only be used on mains ≤ 300 NB</p>	AVK	Series 01 / 71	Up to DN300	<p>All valves shall be restrained. All DI fittings to be wrapped.</p>		<p>NOT ACCEPTED BY SP</p>					
566			Hawle	E2 System 2000	DN50 to DN300								
567			Betta	BETTA	DN100 to DN300								Use of gripper type RSGVs is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations
568			Derwent Industries	Derwent	DN100 to DN150								
569	DAEMCO		DN100 to DN150										
570	Resilient Seated Gate Valves, Thermal Bonded Polymeric Coating.	<p><b>260</b></p> <p>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 &amp; EPDM                      4.10 - For Urban Utilities, RSGVs shall only be used on mains ≤ 300 NB</p>	Reece	DIMAX	DN80 to 300 (FL-FL)	<p>PN25</p> <p>Anchor legs approved</p> <p>All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted</p> <p>All DI fittings to be wrapped</p>	Use is subject to acceptance by SP			Use is subject to acceptance by SP			
571			Daepoong / CNS Engineering	S- Gate Valve	DN100 to DN450	<p>Valve for Underpressure Line Stopping, suitable for rigid pipes with CIOD compatibility, i.e. Ductile Iron, Cast Iron and Asbestos Cement</p> <p>Valves that are unable to be restrained are not accepted.</p> <p>All DI fittings to be wrapped</p>	<p>SP USE ONLY</p>	<p>SP USE ONLY</p>	<p>SP USE ONLY</p>	<p>SP USE ONLY</p>	<p>SP USE ONLY</p>	<p>SP USE ONLY</p>	
572	Resilient Seated Gate Valves, Thermal Bonded Polymeric Coating.	<p><b>283</b></p> <p>1 - PN16 resilient seated gate valves for under pressure line stopping application for water supply                      2 - For Urban Utilities, RSGVs shall only be used on mains ≤ 300 NB</p>	Interflow	Infrastop	DN80 to DN150	<p>Suitable for CI, DI, AC and Series 2 PVC (M &amp; U) using solid plug. The expanding plug is suitable for PVC-M and U to 80m head.</p> <p>Not applicable on PE pipes</p>	Acceptance yet to be determined	<p>SP USE ONLY</p>	<p>SP USE ONLY</p>	Acceptance yet to be determined	<p>SP USE ONLY</p>		
572			No WSA PS										



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1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater
573	Metal Seated Gate Valves, Thermal Bonded Polymeric Coating	261 4.1 - PN16 4.2 - FI-FI 4.3 - Gearbox typically on DN600 and larger (Refer Mechanical IPAM List) 4.4 - Anti-clockwise closing 4.5 - No requirement for spindle cap colour 4.6 - Extension spindle to WSA PS-262 4.7 - Spindle Cap 4.8 - SBR & EPDM 4.9 - Integral bypass not accepted by Urban Utilities 4.10 - For Urban Utilities, MSGVs shall only be used on mains > 300 NB	AVK	Series 580	DN375 to DN600	All DI fittings to be wrapped. All valves shall be restrained	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Considered on case by case basis		
574				Sureflow Series 2580	DN375 to DN600						
575	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	Considered on case by case basis		Considered on case by case basis	NOT ACCEPTED BY SP	Use is subject to acceptance by SP
576	Butterfly Valves	263 4.1- PN16 4.2- Resilient seated wafer, lugged or double flanged	Iplex	AVK	DN50 to DN600 for wafer/ lugged DN100 to DN1000 double flanged	Body shall be ductile iron with fusion bonded polymeric coating external to 300 µm, internal to 350 µm (min.) or high-build two-pack epoxy to 500 µm (min.). Disc shall be stainless steel Grade 316. Shaft shall be stainless steel Grade 316, 410, 420, 430 or 431. Seat shall be EPDM, NBR or SBR. All fasteners shall be stainless steel Grade 316. Operation Type: Lever or Gearbox. Gearbox ratio as per manufacturer's requirement and coating to high build two-pack Epoxy 275 µm (min.)	DN100 to DN300 valves are wafer type for in-ground installations and are anti-clockwise closing operated DN100 to DN300 valves are lugged type for above ground installations and are anti-clockwise closing operated DN375 and larger valves are all double flanged type and are anti-clockwise closing gearbox operated	Considered on case by case basis Direction of closing: Anti-clockwise	Considered on case by case basis Direction of closing: Anti-clockwise	Use is subject to acceptance by SP	Direction of closing: Anti-clockwise for valves with gearbox operator. Clockwise for valves with lever operator Wafer or Lugged valves not accepted without prior approval
577			Emerson / Viadux	Keystone							
578			Ebro	Ebro							
579			AVFI	AVFI							
580			HMA Flow & Industrial	Valveco							
581			Challenger	Challenger							
582			Reece	DIMAX							
583			Hydroflow Distributors	Watts							
584			Reece	Dura	DN50 to DN300		Acceptance yet to be determined	Acceptance yet to be determined		Direction of closing: Anti-clockwise for valves with lever operator Wafer or Lugged valves not accepted without prior approval <b>SP USE ONLY</b>	
585	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 <b>SP Use Only</b> Swabbing type at main ends refer SEQ-WAT-1302-1 Hydrants with slotted head flanges are not accepted Square gaskets are not allowed to be used with round flanges	Swabbing type at main ends refer SEQ-WAT-1302-1 DN80-100 slotted flange for <b>SP USE ONLY</b>	Swab type only accepted	Swab type only accepted	Swab type only accepted DN100 flanged to AS 4087 Fig B5	
586			AVK / Viadux	Sureflow Series 2030/00 non-swab and 2030/10 for swab							
587			Civil Pipe Supplies	BETTA normal & Swab							
588			AAP Industries	MAXIFLO / appFLO							
589			Derwent Industries	Derwent standard and Swab							
590			Dobbie Dico								
591			Weflo Valve / Reece	DIMAX							
592			Ant Barrier Devices For Hydrants	No WSA PS Compliance with AS/NZS 4020							Hydrant Protection
593	Debris And Ant Barrier Device	No WSA PS	Hydrant Services	Ant and Debris Barrier		Use is subject to acceptance by SP	Considered on case by case basis	<b>SP USE ONLY</b>	Use is as directed by SP		
594	Hydrant And Air Valve Isolating Valves	282 4.1 - Flange inlet DN100 4.2 - Outlet DN100 4.3 - Outlet type to be hydrant or air valve	AVK		DN80 to DN100	Thermal bonded polymeric coating Min. PN16	<b>SP USE ONLY</b>	DN100 Flange to AS4087 Fig B5 Swabbing type at main ends refer SEQ-WAT-1302-1	Considered on case by case basis	Use is subject to acceptance by SP	Mandatory for Hydrants on Trunk Water mains >DN300 Isolator Valve for Hydrant - Min. DN100 Clockwise Opening Direction
595			Viadux								
596			Betta / Clover Pipelines	Betta							
597			Crevet								
598	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				Only Class D accepted	
599			Gatic / Iplex								
600			Civilmart								
601			Viadux								
602			Hygrade Water	Hygrade Water							
603			Daemco								
604	Civil Pipes	Civil Pipes	As per drawing SEQ-WAT-1305-1 Type B		Use is subject to acceptance by SP						
605											

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	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
606	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			Only Class D accepted		
607			NIBF / Iplex									
608			Civilmart									
609			Viadux	Hygrade Water	Hygrade Water							
610			Daemco		As per drawing SEQ-WAT-1305-1 Type B							
612			Civil Pipes	Civil Pipes								Use is subject to acceptance by SP
613	Valve & Hydrant Boxes (Recycled Plastics) & DI Covers	No WSA PS 1 - Refer details on SEQ Code Standard Drawing SEQ-WAT-1305-1	Replas / Viadux			Non-trafficable location only. H - Hydrants V - Valves AV - Air valve	Boxes and lids to be Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2309-1 Lid colours (e.g. white for valves and yellow for hydrants) are preferred to be painted in factory	Coloured to SEQ-WAT-1300-1	Coloured to SEQ-WAT-1300-1	Coloured to SEQ-WAT-1300-1, SEQ-NDW-2122-1 and SEQ-NDW-2125-2	Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2209-1	
614			Replas / Crevet									
615			Replas / Vinidex									
616			Replas / Civil Pipes									
617	Valve & Hydrant Boxes (Composite) & DI Covers	No WSA PS 1 - Refer details on SEQ Code Standard Drawing SEQ-WAT-1305-1	Viadux / Daemco	Viadux		Non-trafficable location only. H - Hydrants V - Valves AV - Air valve	Boxes and lids to be Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2309-1 Lid colours (e.g. white for valves and yellow for hydrants) are preferred to be painted in factory	Coloured to SEQ-WAT-1300-1	Coloured to SEQ-WAT-1300-1	Coloured to SEQ-WAT-1300-1, SEQ-NDW-2122-1 and SEQ-NDW-2125-2	Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2209-1	
618			Daemco	Daemco								
619	Valve Extension Spindles	262 4.1 - DN100 to DN525/600 4.2 - Length by Design 4.3 - Valve extension spindles shall be coated with a polymeric coating to AS 4158 with 350 µm DFT (minimum), or Valve extension spindles shall be hot-dip galvanized in accordance with AS 4680, or Valve extension spindles shall be injection moulded high strength, high stiffness glass fibre reinforced thermoplastic in accordance with the relevant sections of AS/NZS 2638.2:2011. 4.4 - Spindle support with bearing at 1 per installation minimum and at 1.8 m max spacings for pit installation	Viadux			AS2638 Compliant	Use is subject to acceptance by SP	Acceptance yet to be determined	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
620			NIBF / Iplex									
621			Forge Bros / Vinidex									
622			Challenger									
623			Daemco									
624			ANT Infrastructure Technologies	ANT	Up to DN300							Considered on case by case basis
625	Steel Fittings To Bends, Tees And Reducers	204 4.1 - MPa 1.6 minimum 4.2 - DN by Design subject to SP approval 4.3 - Bends, tees, reducers and other types by design to SP approval 4.4 - As per SP requirement 4.5 - Fusion bonded polyethylene coating minimum 4.6 - Joint requirements by design 4.7 - Cathodic Protection by design 4.8 - Fusion bonded polyethylene lining 4.9 - Zinc metal spray as per the specification 4.10 - SBR & EPDM 4.11 - Fusion bonded polyethylene coating minimum	Steel Mains	Sintakote	OD114 to OD2500		Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP			
626			Pipe Lining and Coating	Fusionkote	OD168 to OD3624							
627	Stainless Steel Fittings	No WSA PS 1 - WaterMark acceptance.	MM Kembla	KemPress	DN15 to DN100	Min. Grade 316 Min. PN16	Use is subject to acceptance by SP		Considered on case by case basis	Use is subject to acceptance by SP		
628	Flanges Ms	204 - Flanges 4.1 - PN16 minimum 4.2 - DN by Design subject to SP approval 4.3 - Flanged 4.4 - Seal coating for DN450 and larger 4.5 - Sintakote minimum for above ground 4.6 - Flanged at PN16 minimum 4.7 - Cathodic Protection by design 4.8 - Sintapipe lining option 4.9 - Zinc metal spray as per the specification 4.10 - SBR & EPDM 4.11 - Fusion bonded polyethylene coating minimum	Steel Mains			Class 16. Thermal bonded polymeric coating						
629			NIBF / Iplex									
630	Flange Gaskets And 'O' Rings	312 4.1 - PN16 min or as per Design 4.2 - Gasket as Standard with O-ring required for steel flanges 4.3 - Types WA, WC and WG subject to fluid needs 4.4 - DN as per design 4.5 - Material as per Standards 4.6 - Hardness as per range in Table 2 of WSA 109-2011 4.7 - Thickness of 3.0 mm at PN16 and 1.5 mm at PN35	All WSA PS-312 compliant products are accepted									
631	Bolts	No WSA PS 1 - Refer details on SEQ-WAT-1313-1				316 Stainless steel bolts						
632	PE Mechanical Compression Fittings For Reduced Size Water Mains	208 DN63 2.(a) - AS/NZS4129 or EN 1254 acceptable Certification 4.1 - PN16 minimum 4.2 - Mechanical Polyethylene, Polypropylene or Copper Alloy both with approved Plastic grippers/olives/thimbles 4.3.1 - Transition - PE to Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4.3.2 - Coupling - PE to PE 4.4 - Flange not used 4.5 - SBR & EPDM	George Fischer			Metal male fittings connecting to plastic female fittings is not accepted	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
633			Philmac / Philmac & Vinidex									
634			Plasson									
635			Talbot									
636			Alprene		DN63							
637			Iplex									
638			Viadux									
639			Hydroflow / SAB S.p.A	SAB Black Nut Blueseal								
640			Viega	Geopress K								
641			Zetco	TOF								
						Only fittings with a Copper Alloy body and a Copper Alloy compression nut are approved for use	Acceptance yet to be determined		Use is subject to acceptance by SP	Use is subject to acceptance by SP		

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1	Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
642	PE Fittings - Moulded (For Mains And Large Service Pipes)	208 DN63 and larger 2.(a) AS/NZS4129 or EN 1555 or EN 12201 or EN 13244 is acceptable. 4.1 - PN16 minimum 4.2 - Electrofusion and butt weld 4.3 - Couplings, tees, bends, elbows/adjustable elbows, end caps, stub flanges, saddles, reducers 4.4 - AS 4087 compatibility for mating flange 4.5 - SBR & EPDM	Plasson		Up to DN710	Electrofusion fittings to be long type. Stub flanges only to be used for sizes DN450 and larger	Accepted where PE pipes are approved to be used	Accepted where PE pipes are approved to be used for DN63. The use of larger diameters is Considered on case by case basis	Accepted for DN63 and DN110	Hydrant saddles shall only be installed as an under pressure cut-in connection		
643			Georg Fischer	ELGEF Plus Draw - Lock								
644			Friatec / Vinidex	Frialen								Up to DN630
645			Agru	Agru								Up to DN630
646			Fusion Group / FusionPlast	Fusamatic								Up to DN630
647			NUPIGECO	Elofit								DN20 to DN710
648			Plastitalia S.p.A / Hydroflow	PLAST								Up to DN630
649			Plastitalia S.p.A / Advanced Piping Systems	PLAS								Up to DN630
650			Fox Fittings Sp. / Advanced Piping Systems	Fox								Up to DN630
651			Mako	Mako								Up to DN630
652			Simona / Plasson	Simona								Up to DN500
653			David Moss Corporation	DAMOS								Up to DN1000
654			Fusion QLD	Flo Right								Up to DN450
655	Guangdon Liansu / Crew Pipelines	Lesso		DN63 to DN800								
656	PE Fittings - Moulded - High Stress Crack Resistant (HSCR) Polyethylene (For Mains And Large Service Pipes)	208 DN63 and larger 2.(a) AS/NZS4129 or EN 1555 or EN 12201 or EN 13244 is acceptable. HSCR compounds shall comply with AS/NZS 4131 and POP016. 4.1 - PN16 minimum 4.2 - Electrofusion and butt weld 4.3 - Couplings, tees, bends, elbows/adjustable elbows, end caps, stub flanges, saddles, reducers 4.4 - AS 4087 compatibility for mating flange 4.5 - SBR & EPDM	Agru	Agruline	Up to DN630	Comply with AS4129, PN16. Electrofusion fittings to be long type. Stub flanges only to be used sizes DN450 and larger.	Accepted where PE pipes are approved to be used Sizes of DN630 and above which are machined fittings are subject to acceptance by SP	Accepted where PE pipes are approved to be used	Considered on case by case basis	Accepted up to DN355. Hydrant saddles shall only be installed as an under pressure cut-in connection		
657			David Moss Corporation	DAMOS	DN63 to DN1000							Spigot fittings only accepted. Accepted where PE pipes are approved to be used.
658	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 Acceptance yet to be determined	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP Only sweep bends accepted. Acceptance yet to be determined	Use is subject to acceptance by SP	
659			Pipestar	Pipestar	Up to DN355							
660			Enviropipes Pty Ltd	Enviropipes Pty Ltd	DN20 to DN1200							
661	Copper Compression Fittings	No WSA PS	Viega	Propress	DN15 to DN100		Use is subject to acceptance by SP	Accepted up to DN 25	Considered on case by case basis	Only accepted when connecting a new copper pipe to an existing copper water service Use is subject to acceptance by SP	Use is subject to acceptance by SP	
662			MM Kembla	KemPress								
663	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 DN90 riser with slotted flanges suit both DN80 & DN100 flanged hydrants Full face full bore connections Metal insert in the flange, backing rings not required	Accepted where PE pipes are approved to be used Corresponding full bore flange sizes for PE pipe up to DN355 shall be as per Clause 4.5 of the Water Supply Code	Accepted where PE pipes are approved to be used for DN63. The use of larger diameter is considered on case by case basis	Considered on case by case basis	NOT ACCEPTED BY SP Use of stub flanges is subject to acceptance by SP Use is subject to acceptance by SP	Use of stub flanges is subject to acceptance by SP	
664			Plasson		DN80 / DN100							
665			Iplex		Up to DN355							
666			Friatec / Vinidex	Frialen	Up to DN180							
667			Fusion Group / FusionPlast	Fusamatic	DN90 to DN450							
668			David Moss Corporation	DAMOS	Up to DN355							
669			Rodney / Vinidex	Maxi Stub	Up to DN450							

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670	PE Scour Tees	No WSA PS 1 - Compliance with AS/NZS 4129 & POP006 2 - PN16 Minimum 3 - Butt weld pipe joint with full face flange adaptor 4 - Flange compatible with AS 4087 Figure B5 and have SS316 backing ring	Vinidex / Rodney Kingston Bridge / Iplex			Comply with AS4129	Accepted where PE pipes are approved to be used	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP			
671												
672	Air Valves	265	ARI Flow control			Min PN16	DN40 and DN50 BSP threaded to have Brass base	DN40 and DN50 BSP threaded to have Brass base.	Considered on case by case basis DN40 and DN50 BSP threaded to have Brass base.	Use is subject to acceptance by SP		
673			Bermad			Plastic body only permitted for DN20 and DN25						
674			Vent-O-Mat		DN20 to DN200	Double Orifice as required,						
675			AVFI	DAV-MH		Thermal bonded polymeric coating						
676			ISCO	Vent Master PX								
677	Non-Return Valves - Swing Check With Counterweight Lever Arm	264 Refer Appendix B of AS4794 4.1 - Class PN16 min 4.2 - Size by Design 4.3 - Medium - Water 4.4 - Installation - Horizontal 4.5 - Spindle - Extended 4.6 - Lever and Counterweight minimum with switches and indicators by Design 4.7 - Flanged to AS 4087 Figure B5	HMA Flow & Industrial	Valmatic Swing-flex	DN50 to DN600	Thermal bonded polymeric coating	Accepted to be used for large meter assemblies where a non-return valve is required as per council's meter standard drawings.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	
678			Dobbie Dico	Dobbie Dico	DN80 to DN900							
679			AVK	AVK Swing Check Valve 41 / 25	DN50							
680			AVK	AVK Swing Check Valve 41 / 8X	DN80 to DN300							
681			Challenger Valves	Challenger - RSSC	DN80 to DN375							
682			AVFI Pty Ltd	AVFI - RSSC	DN50 to DN300							
683	Non-Return Valves - Free Acting (Without Counterweight) Swing Check	264 Refer Appendix B of AS4794 4.1 - Class PN16 min 4.2 - Size by Design 4.3 - Medium - Water 4.4 - Installation - Horizontal 4.5 - Spindle - Extended 4.6 - Flanged to AS 4087 Figure B5	HMA Flow & Industrial	Valmatic Swing-flex	DN50 to DN600	Thermal bonded polymeric coating	NOT ACCEPTED BY SP	Considered on case by case basis	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	NOT ACCEPTED BY SP
684			Dobbie Dico	Dobbie Dico	DN80 to DN900							
685			AVK	AVK Swing Check Valve 41 / 25	DN50							
686			AVK	AVK Swing Check Valve 41 / 8X	DN80 to DN300							
687			Challenger Valves	Challenger - RSSC	DN80 to DN375							
688			AVFI Pty Ltd	AVFI - RSFC	DN50 to DN300							
689	Pressure Reducing Valves	268 See Appendix B of AS5081:2008	Bermad Water Technologies	Bermad	DN40 to DN900	Thermal bonded polymeric coating	Dorot 300 Series for Pressure Reducing Valve and for associated Pressure Relief Valve (Dump Valve) Dorot 200 Series or Bermad IR-43Q Valve	NOT ACCEPTED BY SP	Considered on case by case basis	Use is subject to acceptance by SP	Considered on case by case basis (In PRV installations where upstream pressures can be within 50 kPa of the required downstream pressure, Plasson C valves are preferred).	
690			Singer / Hygrade Water Australia	Singer								
691			Plasson Australia Pty Ltd	Plasson C-Valve								
692			Dorot Australia Pty Ltd	Dorot 300 Series								
693			Cla-Val Pacific / Challenger	Cla-Val	DN25 to DN1200							
694	Pressure Sustaining Valves And Altitude Valves	268 See Appendix B of AS5081:2008	Bermad Water Technologies	Bermad	DN40 to DN900	Thermal bonded polymeric coating	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Considered on case by case basis	Use is subject to acceptance by SP	Considered on case by case basis	
695			Singer / Hygrade Water Australia	Singer								
696			Dorot Australia Pty Ltd	Dorot 300 Series	DN25 to DN1200 (Sustaining)							
697			Cla-Val Pacific / Challenger	Cla-Val	DN80 to DN1200 (Altitude)							
698	PE Flex Restraint Fitting (Used As Puddle Flange)	No WSA PS 1 - PN16 minimum	Georg Fischer	EF Flex Restraint	DN180 to DN1600	PE100 In accordance with manufacturer's requirements	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
699			Plasson	Flex Restraint	DN180 to DN1600							
700	Mechanical Restraining Flange For PE Pipe	No WSA PS 1 - PN16 Minimum 2 - SS316 bolts, nuts and washers	Derwent Industries		DN125 & DN180		Use is subject to acceptance by SP	Considered on case by case basis	Considered on case by case basis		Use is subject to acceptance by SP	
701	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  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 Dismantling joints shall be restrained type only and for Meter Assemblies only. Use of uni-flange is subject to acceptance of SP. Uni-flanges shall be for meter assemblies only For Meter Assemblies only, restrained type only For Mains only, restrained type only For Meter Assemblies only, restrained type only	Restrained type only To be used within pit or aboveground locations only	Acceptance yet to be determined	Considered on case by case basis	Use is subject to acceptance by SP	Uni-flange to be used within pit or aboveground locations only
702			Viking Johnson									
703			HMA Flow & Industrial	Uni-Flange Adaptor	DN50 to DN500							
704			Hygrade Water	Pipemate	DN80 to DN900							
705			AVFI	AFD10 Series	DN80 to DN1200							
706			AVFI	AFD20 Series	DN80 to DN1200							
707			IPLX	Crevet	DN80 to DN750							
708			AVK	Series 970 (FD10)	DN80 to DN1200							
709			AVK	Series 970 (FD20)	DN100 to DN300							
710	Flowmeter - Network Meter	No WSA PS 4.1 - Flange to AS4087 Figure 5 4.2 - PN16	Emerson	Emerson			Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Considered on case by case basis	NOT ACCEPTED BY SP	ABB Water master Use is subject to acceptance by SP	
711			ABB	ABB								
712			Siemens	Siemens								
713			E & H	E & H								
714			Krohne	Krohne								
						Acceptance yet to be determined	Considered on case by case basis	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	

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Product	WSAA Product Specification No. with Service Provider Specific Requirements (Version 7.6 May 2023)	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	Urban Utilities	Unitywater	
<b>Category: WATER SERVICES</b>											
715	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	NOT ACCEPTED BY SP	Considered on case by case basis	RMC tapping band also accepted on AC pipe	SP USE ONLY	
716			Gatic / Milne								
717			RMC								
718			Clover	Clover	DN100 to DN300 Type F for PVC (S2 only) and AC pipes						
719			Hydroflow	P & I	DN100 to DN200 Type F for PVC (S1&2) and AC pipes						
720			4N Products & Stockbrands	4N	DN100, 150, 200						
721	Austworld	TPAB10020	DN100 Type F for PVC (S2 only) and AC pipes, outlet size DN20	Use is subject to acceptance by SP	Acceptance yet to be determined	Considered on case by case basis	SP USE ONLY				
722								TPAB10025	DN100 Type F for PVC (S2 only) and AC pipes, with DN25 outlet		
723	Tapping Bands For PE - Mechanical	310 4.1 - DN100 to DN300 4.2 - Without Electrical Isolation 4.3 - Female Rp thread to AS ISO 7.1	Gatic / Milne		DN63 to DN315	Gunmetal - Positive stops Only for where E-F saddles are not practicable  Positive stops, coloured black Only for where E-F saddles are not practicable WSAA Appraisal PA10/19  Ductile iron lower half  Stainless steel strap lower half. For min PN16 (SDR11) pipes Only for where E-F saddles are not practical	NOT ACCEPTED BY SP	Accepted where PE pipes are approved to be used	Considered on case by case basis	SP USE ONLY	
724			4N Products & Stockbrands	4N	DN63, 90, 125 & 180						
725			Hawle / Hygrade Water	Haku	DN63 to DN315						
726			Hawle / Hygrade Water	Haku	DN280 to DN500						
727	Derwent	Uniclamp	DN125 & DN180		DN125 & DN180	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Considered on case by case basis	NOT ACCEPTED BY SP		
728	Viega	Geopress K	DN63 to DN180	Only for where E-F saddles are not practical	Use is subject to acceptance by SP					NOT ACCEPTED BY SP	Considered on case by case basis
729											
730	Friatec / Vinidex	Frialen	Up to DN355	Use is subject to acceptance by SP	NOT ACCEPTED BY SP					NOT ACCEPTED BY SP	
731	Fusion Group / FusionPlast	Fusamatic	Up to DN315			Accepted where PE pipes are approved to be used	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
732	Hydroflow	Plastitalia	Up to DN315	Use is subject to acceptance by SP	NOT ACCEPTED BY SP					NOT ACCEPTED BY SP	
733	Advanced Piping Systems / Plastitalia S.p.A	PLAS	Up to DN315			Use is subject to acceptance by SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Flanged saddles are not accepted by SP		Flanged saddles are not accepted by SP
734				Agru	Agruline					Up to DN250	
735	Gatic / Milne	Elster	DN20			Dezincification resistant material and comply with AS/NZS 3688	Only DN20 and 25 accepted	SP USE ONLY			
736				RMC							
737	Strongcast	TPFNR Tapping Valve	DN20	Use is subject to acceptance by SP	Accepted where PE pipes are approved to be used	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Considered on case by case basis	SP USE ONLY		
738										Wenac	
739	Ball Valves - Water Service	274 4.1 - PN16 minimum 4.2 - Plastic not permitted, Body and Handle to be DR copper alloy or stainless steel 4.3 - By accepted product 4.4 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 or PE Compression 4.5 - 90 Degree closure with minimum 50 mm handle (from handle tip to shaft spline centre). 4.6 - Water Supply Property Service	All Valve	Airaga	DN20	Copper alloy shall be 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	
740			Elson	Elson (Lead-free)	DN20						
741			Gatic / Milne								
742			Elster								
743			RMC								
744			Zetco	TOF	DN20 & DN25						
745			Strongcast	Strongcast	DN20 & DN25						
746			Austworld	LOGI VALVE	DN20 & DN25						
747	Galvin Engineering	Galvin Engineering	DN20 & DN25								
748	Flocontrol	Arita	DN32 to DN50	Use is subject to acceptance by SP	Preference is for an integrated flange on both sides of the valve. F/F Ball valves are accepted. Ball valves must be lockable in both on and off position.	NOT ACCEPTED BY SP	Accepted for DN20 & DN25	Use is subject to acceptance by SP	NOT ACCEPTED BY SP		
749										Austworld	LOGI VALVE
750	Zetco	4406 Series	DN25, DN32, DN40 & DN50	Acceptance yet to be determined	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Acceptance yet to be determined	Acceptance yet to be determined			
751	Union Stopcock	No WSA PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS 3688. 2 - PN 16 3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4 - Watermark acceptance	Gatic / Milne			25 mm Dezincification resistant material and comply with AS/NZS 3688	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	
752			Elster								
753			RMC								
754											



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757	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 & DN25	Dezincification resistant material and comply with AS/NZS 3688.	DN25 only is accepted						
758			RMC			Shall have a locking nut and a metallic stopper to prevent moving apart or kinking between the moving parts	NOT ACCEPTED BY SP	Considered on case by case basis	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
759			Austworld					Both configurations of individual and combined with ball valves are accepted					
760	Transition Couplers	208 or 247 Up to DN63 2.(a) - AS/NZS4129, EN1254 or equivalent acceptable Certification 4.1 - PN16 minimum 4.2 - Mechanical Polyethylene or Copper Alloy both with approved Plastic grippers/olives/thimbles 4.3.1 - Transition - PE to Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4.3.2 - Coupling - PE to PE not used 4.4 - Flange not used 4.5 - SBR & EPDM	Plasson			PE electro-fusion to BSP connections Metal male fittings connecting to plastic female fittings is not accepted		Considered on case by case basis			Push fitting not accepted by SP		
761			Georg Fischer										
762			Friatec / Vinidex							Considered on case by case basis	Use is subject to acceptance by SP		
763			Viega	Geopress K	Up to DN63			Use is subject to acceptance by SP					
764			Philmac	Transition UTC	DN20		Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined			
765	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										
766			Philmac / Philmac & Vinidex			DN25 to DN63		Use is subject to acceptance by SP		Preferred water meter tail/nut as a separate item and not integrated into a fitting.	Considered on case by case basis		
767			Plasson										
768			Elster	TITA	DN25								
769			Zetco	TOF	DN25 to DN63								
770			Talbot										
771			Alprene					PE to PE or PE to BSP. Push fit type without locking nut is not accepted.		NOT ACCEPTED BY SP			
772			Hydroflow / SAB S.p.A	SAB Black Nut Blueseal	DN25 to DN63			Metal male fittings connecting to plastic female fittings is not accepted.			Considered on case by case basis		
773			Iplex						Use is subject to acceptance by SP			Use is subject to acceptance by SP	
774			Viadux										
775			NUPIGECO	Elopress									
776			Austworld	LOGI CIVIL	DN25 & DN32						PE pipe stand use is considered on case by case basis	PE pipe stands not accepted by SP	
777	Viega	Geopress K	DN25 to DN63										
778	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		
779	Meters - 20 mm (Direct And Sub-Metering Applications)	No WSA PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer and integral Dual Check Valves 4 - Std Tail Nut with gasket 5 - Colour per SEQ-SP requirements	Elster / Honeywell	V100 (PSM-T) (WM202PD)				Horizontal and Vertical orientation	NOT ACCEPTED BY SP		Considered on case by case basis		
780			Elster / Honeywell	V200				Use is subject to acceptance by SP			NOT ACCEPTED BY SP		
781			Itron	TD8					Horizontal and Vertical orientation				
782			RMC	WM273MRP multijet				Purple body for non-drinking water Accuracy Class 2	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		
783			RMC	WM281MRP multijet				Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy		NOT ACCEPTED BY SP		NOT ACCEPTED BY SP	
784			GVT	TPWM					NOT ACCEPTED BY SP				
785			Xylem	Sensus model 620							Considered on case by case basis		
786	Xylem	Sensus iperl					Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	NOT ACCEPTED BY SP		
787	Itron	Intelis											
788	Meters - 25 mm (Direct And Sub-Metering Applications)	No WSA PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer and integral Dual Check Valves 4 - Std Tail Nut with gasket 5 - Colour per SEQ-SP requirements	Elster / Honeywell	V100 (PSM-T) (WM252PD)				Horizontal and Vertical orientation	NOT ACCEPTED BY SP		Only accepted for above ground installation	NOT ACCEPTED BY SP	
789			Elster / Honeywell	V200				Use is subject to acceptance by SP				Considered on case by case basis	
790			Itron	TD8					Horizontal and Vertical orientation				
791			RMC	WM271MRP multijet				Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Horizontal orientation only. Not permitted to be used for Hard Wired AMR systems utilising Reed Switches. Not to be used for sub-meters.		Use is subject to acceptance by SP		NOT ACCEPTED BY SP
792			Xylem	Sensus iperl					Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
793	Itron	Intelis											
794	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)					NOT ACCEPTED BY SP		NOT ACCEPTED BY SP		
795			Elster / Honeywell	V200				Purple body for non-drinking water Accuracy Class 2	NOT ACCEPTED BY SP		Shall be supplied with integral reverse flow restrictor	Considered on case by case basis	
796			Itron	TD8						Considered on case by case basis			
797			RMC	MRP				Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy			Shall be supplied with integral reverse flow restrictor	NOT ACCEPTED BY SP	
798			Xylem	Sensus iperl					Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
799	Itron	Intelis											
800	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)				Shall be supplied with integral reverse flow restrictor Horizontal and Vertical orientation	NOT ACCEPTED BY SP			NOT ACCEPTED BY SP	
801			Elster / Honeywell	V200				Purple body for non-drinking water Accuracy Class 2	Use is subject to acceptance by SP		Shall be supplied with integral reverse flow restrictor	Considered on case by case basis	
802			Itron	Flostar M					Shall be supplied with integral reverse flow restrictor Horizontal orientation only				
803			RMC	WM400 / V100 (PSM-T)				Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Shall be supplied with integral reverse flow restrictor Horizontal and Vertical orientation	NOT ACCEPTED BY SP		NOT ACCEPTED BY SP	
804			RMC	WM406PD / V200							Shall be supplied with integral reverse flow restrictor	Acceptance yet to be determined	
805			Xylem	Sensus iperl					Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	NOT ACCEPTED BY SP
806	Itron	Intelis							Acceptance yet to be determined	Acceptance yet to be determined			



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807	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	Above ground installation with external top accessible (basket type) inline strainers NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
808			Elster / Honeywell	H5000			Use is subject to acceptance by SP	Considered on case by case basis			Considered on case by case basis		
809			Arad / RMC	Woltmann Silver Turbo			Horizontal orientation only	Shall be capable of providing pulse output			NOT ACCEPTED BY SP		
810			Itron	Flostar M			Up to DN150						
811			Itron	Woltex			Use is subject to acceptance by SP	Considered on case by case basis			NOT ACCEPTED BY SP		
812			Sensus	Meistream							Only accept Meistream Plus meter installed above ground with external top accessible (basket type) inline strainers NOT ACCEPTED BY SP		
813	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	Only Flat-top accepted			
814			RMC		Up to DN150								
815			Hydromet		Up to DN200								
816			Virginia Metals		Up to DN200								
817	Y Strainer	No WSA PS	Emerson	VALVCHEQ	DN65 to DN300	PN16 Fusion bonded epoxy coated ductile iron	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP			
818			AVFI	AS105F Cast Iron Y Strainer	DN50 to DN300							Use is subject to acceptance by SP	Ductile Iron is preferred
819			Austworld	DR W / Mark	DN40 to DN50						Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined
820	Flowmeters 50 mm And Larger	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	R=500. SS body only for DN150 and smaller sizes. Horizontal and Vertical orientation. R=400. DN100 & DN150 to Horizontal and Vertical orientation, DN200 and larger to Horizontal orientation only.	NOT ACCEPTED BY SP	Considered on case by case basis	Approved for fire system metering only. Combined Fire/Domestic water applications accepted for townhouse style CTS schemes. Only Stainless Steel bodied meters accepted.			
821			Siemens Electromagnetic	Siemens Mag 8000 Advanced							Use is subject to acceptance by SP	Use is subject to acceptance by SP	
822			Siemens Ultrasonic	Siemens							NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	
823			E & H Electromagnetic	E & H Promag W400							Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
824			E & H Ultrasonic	E & H									
825			Emerson	Emerson							Considered on case by case basis	Use is subject to acceptance by SP	
826			ABB	WaterMaster AquaMaster								NOT ACCEPTED BY SP	
827			Sensus	Cordonell							Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined
828	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	Refer to Logan Water Sub-metering for Multi-Unit Properties Guidelines	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
829			Epitomy	Epitomy									
830			Utility Technology	Utility Technology									
831			Halytech	Spider							NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	
832			Ausmeter	Ausmeter									
833			Itron	Everblu							Use is subject to acceptance by SP	Use is subject to acceptance by SP	
834			SUMS	Vivid Multi Logger									
835	Strongcast: Wired / Wireless	Strongcast: Wired / Wireless			Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined			
836	Meter Boxes To Class A	No WSA PS 1 - Lids Virgin HDPE with Box Virgin and/or regrind HDPE 2 - Lid in Box at Class A to AS 3996 3 - Lid shall have a slip resistant pattern that is certified to AS/NZS4586 for Table 2 ( Class W ) and Table 5 ( Classification R11 ). 4 - Lids shall snap-lock into the box and shall include a metal device for Location and a separate 2 mm Galvanised Chain or 2 mm SS304 wire rope fixed to the lid and box. 5 - The Lid shall have moulded on it's upper surface Water Meter and shall be coloured as per SEQ-SP's requirements.	Everhard Industries		368L * 271W * 316D (for 20 mm meters only)	Blue, Black or Green meter box lids	Blue Lid not permitted.	Blue Lid not permitted (SP use only)	Blue Lid not permitted Considered on case by case basis	Solid purple lid with non-drinking water symbol and lettering for non-drinking water meters. Black or blue lid for drinking water meters. Green lid not permitted.	NOT ACCEPTED BY SP		
837			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;					Purple lid for non-drinking water meter box Black or green lid for drinking water meter box Blue lid not permitted	
838			Draper		440L * 275W * 280D		DN40 short boxes for retrofitting only are the Dura 15"x21"x12" valve box with a "METER BOX" permanent label on lid or approved equivalent						
839			Strongcast		427L * 267W * 316D		Use is subject to acceptance by SP					Use is subject to acceptance by SP	
840			All Valve Industries	AVMB	445L * 288W * 320D		Acceptance yet to be determined				SP USE ONLY	Acceptance yet to be determined	Acceptance yet to be determined
841	Everhard Industries		429L * 271W * 220D										
842	Meter Boxes To Class C	No WSA PS 1 - Lid in Box at Class C to AS 3996 2 - Lid shall have a slip resistant pattern that is certified to AS/NZS4586 for Table 2 ( Class W ) and Table 5 ( Classification R11 ). 3 - Lids shall snap-lock into the box and shall include a metal device for Location and a separate 2 mm Galvanised Chain or 2 mm SS304 wire rope fixed to the lid and box.	Strongcast	SCCOLMED / SCLIDMED	413L * 253W * 316 D		Use is subject to acceptance by SP	Blue lid not permitted Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP			
843	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	Considered on case by case basis	Fitted with top accessible (basket type) inline strainer NOT ACCEPTED BY SP			
844			Watts	SDCV	DN80 to DN200	Acceptance yet to be determined	Acceptance on case by case basis						
845	Double Check Valve (DCV), Double Check Detector Assembly (DCDA)	No WSA PS 1 - Certified to AS/NZS 2845	Emerson	VALVCHEQ			Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Considered on case by case basis	Use is subject to acceptance by SP			
846			Bernad	Cla-Val	DN40, 50, 100 & 150								
847			Hydroflow Distributors	Watts							Use is subject to acceptance by SP		
848	Pre-Assembled Dual Meter Boxes	No WSA PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Elster		DN20	Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Use is subject to acceptance by SP May only be used for dual water supply systems Install pre-assembled dual boxes as per SEQ-NDW-2303-1 and 2304-1	NOT ACCEPTED BY SP	Install approved pre-assembled boxes as per SP requirements	NOT ACCEPTED BY SP	Use is subject to acceptance by SP		
849			RMC	KIT235 WMKIT235		All components shall be approved fittings No Slip couplings						Use is subject to acceptance by SP	

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850	Pre-Assembled Single Meter Boxes	No WSA PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Strongcast	SCMBA20	DN20	Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy.  All components shall be approved fittings. No slip couplings.	Accepted assemblies are: GCSCMB-2PE/TD8 to with meter, brass PE ends, standard supply. SCMB-2PE to without meter, brass PE ends, standard supply. GCSCMB-2BSP/TD8 to with meter, thread ends, supply on request only. SCMB-2BSP to without meter, thread ends, supplied on request only.	Acceptance of flat faced nuts yet to be determined.  Install approved pre-assembled boxes as per SEQ-WAT-1110 set	Only to be installed as per SP requirements Blue Lid not permitted	V200 meter only. No slip coupling	Use is subject to acceptance by SP	
851			Elster				Accepted assemblies are: 46491-25 to with meter, brass PE ends, standard supply. 46491-26 to without meter, brass PE ends, standard supply. 46491-22 to with or without meter, thread ends, supply on request only.					
852			RMC	KIT236 WMKIT236			Accepted assemblies are: KIT238 to without meter, brass PE ends, standard supply. WMKIT238 to with meter, brass PE ends, standard supply. KIT237 to without meter, thread ends, supply on request only. WMKIT237 to with meter, thread ends, supply on request only.					
853			All Valve Industries	AVMB-2BSP / TD8 AVMB-2PE / TD8			Accepted assemblies are: AVMB-2PE to with/without meter, brass PE ends, standard supply. AVMB-2BSP to with/without meter, thread ends, supply on request only.					
854			Strongcast	SCMB-2BSP			DN25					Use is subject to acceptance by SP
855	Strongcast	SCMB18SP32	DN32									
856	Sub-Meter Assemblies - Wall Mount Brackets	No WSA PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Elster	46491-00	DN20	Drinking or Non-drinking  Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy  For wall bracket assemblies the wall bracket shall be stainless steel rigid type	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Install approved sub-meter assemblies as per SP requirements	Only accepted with no slip coupling	Slip Coupling not accepted	
857			All Valve	SMA20M								
858			Strongcast	SCMLIM20								
859			Austworld	SMK05								SMK with Telescopic slip coupling
860				KIT227								
861			RMC	KIT227Q								
862			Elster	46492-00								DN25
863			Austworld	SMK06								
864			SMK07 with Telescopic slip coupling									
865			Strongcast	SCMLIM25Q								
866	Strongcast	SCMLIM32Q	DN32									
867	Dual Check Valves For Meter Assemblies DN40 And Larger	No WSA PS 1 - Certified to AS/NZS 2845.1 2 - Non-Testable 3 - PN16 and Flanged to AS4087 Figure B5 4 - Ductile Iron body with AS4158 coating and lining or SS316 body or SS304 body if SS316 unavailable	Emerson	VALVCHEQ		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Alternatively figure DC03 double check valves are acceptable	NOT ACCEPTED BY SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
869			Hydroflow Distributors	Watts								Use is subject to acceptance by SP
870	Reduced Pressure Zone Device (RPZD), Reduced Pressure Detector Assembly (RPDA)	No WSA PS 1 - Certified to AS/NZS 2845	LWG Zum	Model 375						Any brand with ISO Type 5 product certification to AS2845 is accepted	UW prefers RP03 RPZ	
871			RMC									
872			Emerson / ValvCheQ	RP03								
873	Hydroflow Distributors	Watts		Use is subject to acceptance by SP								
874	Pressure Limiting Valve For Water Services	No WSA PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS 3688. 2 - PN 16 3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4 - Watermark acceptance 5 - Set point 50 m	RMC		DN15 to DN50	Stainless Steel seat.  Not buried.	Not used - Private Plumbing facility	Not used - Private Plumbing Facility	Not used - Private Plumbing Facility	Not used - Private Plumbing facility	Use is subject to acceptance by SP	
875			NEFA									
876			Hydroflow Distributors	Watts								
877	Constant Flow Control Device	No WSA PS 1 - PN16 minimum 2 - Watermark certification 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		

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<b>Category: WATER SUPPLY MISCELLANEOUS ITEMS</b>											
878	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								
879			Tapex								
880			LWG Zurn								
881			Rain Harvesting	421				Use is subject to acceptance by SP			
882			Wenac							Use is subject to acceptance by SP	
883	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					
884											
885	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					
886			Crevet								
887	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.
888			Vinidex								
889			Viadux								
890			Pipemakers								
891	Embedment Material - Crushed Rock	351 4.1 - Single sized. 4.2 - Nominal 5 or 7 mm									
892	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
893	Embedment Material - Sand	350 4.1 - Grade A or B					Main pipe and large service pipe (DN63 and Larger) uses are subject to acceptance by SP  Small service pipe uses (DN25- DN50 PE) are mandatory	Main pipe use considered on case by case basis. Service pipe use mandatory	Main pipe use is subject to acceptance by SP Service pipe use mandatory		
894	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					
895	Security Fencing	No WSA PS				AS1725.1 Chain Link Fabric Fencing- powder coated black	Fence details generally to CoGC Standard Drawing 05-014	Refer to SEQ-SP for requirements	Fence details generally to CoGC Standard Drawing 05-014	Refer to SEQ-SP for requirements	In accordance with Unitywater's specification Pr9903 to Specification for Building and Structural Works, Section 5.15 Security Fencing.
896			Bluedog Fencing	Securatom		Minimum panel height 2.1m; Powder coated black to AS4506	Acceptance yet to be determined	Acceptance yet to be determined	Considered on case by case basis	Acceptance yet to be determined	
897			Oxworks	Hercules			Acceptance yet to be determined	Acceptance yet to be determined		Acceptance yet to be determined	
898	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					
899				HD Series	Runner height of 30, 50, 75 and 100mm 110mm OD to 355mm OD (untogrouted annulus). May be used on carrier pipe diameters greater than 355mm OD where the annulus will be grouted.	For SCL, DI, PE, PVC and GRP carrier pipes	Use is subject to acceptance of SP			Considered on case by case basis	Use is subject to acceptance of SP
900				HDXT Series	Runner heights of 43mm, 58mm, 63mm, 103mm, and 153mm, suitable for carrier pipes with outside diameters from 300mm to 3000mm.	For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes					
901	Plastic Marker Post	1- Comply with Main Roads specification MRS11.14	Park International								
902			Deks	Deks	1350 mm Long x 100 mm Wide x 4 mm Thick	As per SEQ-WAT-1300-2	Acceptance yet to be determined	NOT ACCEPTED BY SP	Considered on case by case basis	Acceptance yet to be determined	
903			Roadside Products					Acceptance yet to be determined	Acceptance yet to be determined		

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904	Kerb Markers	248 4.1 - SS, Copper Alloy 4.2 - H, F, AV, SV, SH, VB, V, SC, HL, ML, LL, WM 4.3 - Circular 4.4 - 19mm 4.5 - 40mm diameter				As per SEQ-WAT-1300-1			Stainless Steel <b>SP USE ONLY</b>		Only Brass markers accepted
905	Camlock	No WSA PS				S/Steel 316					Maximum DN100
906	Valve Pit Access Cover And Frame	290 4.1 - 600 x 900 mm (Min.) 4.2 - Solid top, Sealed Type 4.3 - 600 x 900 mm Clear Opening (Min.) 4.4 - Class B for non-trafficable areas and Class D for trafficable areas 4.5 - Lifting Key as per Standard Drawings 4.6 - Markings to AS3996 Clause 1.6 (a) to (f). 4.7 - Hinged (Unitywater requires non-hinged access cover) 4.8 - Standard Packaging and Delivery 4.9 - As per Standards 4.10 - Standard Coating 4.11 - Bolt down requirement by design 4.12 - Weatherproof (sealed) 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	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP
907			Gatic								
908			Civilmart								
909			Webforge								
910			Hygrade								
911			EJ								
912			Durham								
913			Ducast								
914	Mass Products (Aluminium)										
915	Valve Pit Lightweight Polymeric Lids And Frames (Non-Corrosive)	292 4.1 - 600 x 900 mm (Min.) 4.2 - 600 by 900 mm Clear Opening (Min.) 4.3 - Standard Lifting Key 4.4 - Markings to AS3996 Clause 1.6 (a) to (f) 4.5 - Standard packaging 4.6 - No specific markings required 4.7 - Bolt down requirement by design 4.8 - Class B for non-trafficable areas and Class D for trafficable areas	Prime Composites			Refer Standard Drawings SEQ-WAT-1307-3, SEQ-WAT-1308-1 and SEQ-WAT-1310-4	Use is subject to acceptance by SP	Considered on case by case basis	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP
916			EJ								
917			Terra Firma								
918			ACO SAKU								
919	Protective External Coating	No WSA PS 4.1 - Two component solvent free polyurethane 4.2 - Suitable for provision of single coats >=0.6mm thick 4.3 - Excellent stated resistance to Sulphuric Acid via Test results 4.4 - Minimum 15 minute Pot Life at 20 degrees C 4.5 - Light coloured 4.6 - Applied to manufacturers requirements 4.7 - Combined 10 year warranty from Applicator and Manufacturer	Steuler KCH	Oxydur PTB		Colour white to grey & heritage green	Use is subject to acceptance by SP. External coatings at min 0.3 mm thick dry film via single coat. Sulphuric Acid resistance to suit site conditions. SP Approved Equivalents are the listed Internal coatings	Considered on case by case basis (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP (minimum 2.0 mm thickness) Excellent resistance to Sulphuric Acid	Use is subject to acceptance by SP (minimum 2.0 mm thickness)	Use is subject to acceptance by SP (minimum 2.0 mm thickness)

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920	<b>Category: EMERGENCY STORAGE CHAMBERS</b>										
921	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) Conc. Box units (2.4 m modules)	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
922			Rocla	Concrete Detention System	Conc. Pipe units (2.4 m modules)	Reinforced Concrete - Sacrificial layer or Plastilined As per SEQ-SPS-1402-1	CoGC accepts only PE lined Pipe	LCC accepts only PE lined Pipe	RCC accepts only PE lined Pipe		UW accepts only PE lined Pipe
923			Humes								
924			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	Considered on case by case basis	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
925			Chemstore Group	Hydrosave	From 1.2 m to 3.5 m dia and 2.5 m to 20 m length	Fibreglass construction As per SEQ-SPS-1402-1					Considered on case by case basis
926			Aquatec Fluid Systems	Aquatec Fibreglass Storage Vessels	From 1 m to 4 m dia and 1 m to 20 m length	Fibreglass construction As per SEQ-SPS-1402-1	Use is subject to acceptance by SP	Considered on case by case basis	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
927			Tank Solutions	Mullaly	1470mm to 3275mm in diameter 3.3m to 15m in length	Fibreglass construction As per SEQ-SPS-1402-1					Use accepted - Warranty acceptable to SP to be provided
928			Polynex	Polynex	From 600mm to 3000mm in diameter	Double walled HDPE As per SEQ-SPS-1402-1	Use is subject to acceptance by SP	Considered on case by case basis	Use Accepted - Minimum 20 year warranty		

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929	<b>Category: PRESSURE SEWERAGE SYSTEMS (TO SEQ WSA07)</b>										
930	<b>Written consent from the relevant SEQ-SP is required for acceptance of pressure sewers</b>										
931	Boundary Kit	<b>NO WSA PS</b> Refer to details on SEQ Code Standard Drawing SEQ-PSS-1102-1	Aquatec Fluid Systems	Boundary Valve Kit	32mm OD, 40mm OD, 50mm OD	HDPE construction	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Accepted on a case-by-case basis
932			Mono	PSS-BK5		As per SEQ-PSS-1102-1					
933	On-Property Collection Tank Kit	<b>402</b> 2.(a) - WSA 129:2011 (or equivalent); AS/NZS 1546.1:2008 4.1 to 4.4 - Requirements to be specified by SEQ-SP on a case-by-case basis.	Aquatec Fluid Systems	Enduraplex Pressure Sewer System	900L, 950L	PE construction As per SEQ-PSS-1101-1	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Accepted on a case-by-case basis
934			Mono	ECO	900L	Authorisation applies to the collection tank, lid, access cover, inspection shaft and inlet fitting.					
935			Xylem	Eco1-60	900L, 1100L	Collection tank kit shall be supplied as a complete unit with pump and controller					
936	Flushing Point Kit	<b>NO WSA PS</b> Refer to details on SEQ Code Standard Drawing SEQ-PSS-1007-1 1. 2. BSP Thread connector 3. Pre-cast concrete, HDPE 4. Class B, Class D 5. 50mm SS Camlock with dust cover	Aquatec Fluid Systems	Flushing Point Kit As per Aquatec drawing PE.FP.STD-T2	40mm, 50mm, 63mm, 75mm, 90mm, 110mm	As per SEQ-PSS-1007-1 Authorisation applies to chamber incorporating 316 stainless steel pipework assembly, 316 stainless steel lockable ball isolation valve and 316 stainless steel camlock and dust cap	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
937	Gas Release (Air) Valve Kit	<b>NO WSA PS</b> Refer to details on SEQ-PSS-1005-1 1. 2. BSP Thread connector 3. Pre-cast concrete, HDPE 4. Class B, Class D 5. 50mm SS Camlock with dust cover 6. Must be water tight	Aquatec Fluid Systems	As per Aquatec drawing PE.AV.STD-T3	40mm, 50mm, 63mm, 75mm, 90mm, 110mm, 125mm	Refer to details on SEQ-PSS-1005-1 & SEQ-SPS-1606-1	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	
938	Isolation & Control Valves	<b>274</b> 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	Zetco	Seris 4015 2 piece stainless F-F BSPT	DN8 to DN80	BSPT threaded connections. Extension spindle to finished surface level may need to be fabricated	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Accepted on a case-by-case basis
939			AVFI	V1 Series - 1 Piece V2 Series - 2 Piece V3 Series - 3 Piece V2FH Series- Flanged	DN8 to DN50 DN8 to DN100 DN8 to DN100 DN15 to DN50						
940	Isolation Valve Kit		Aquatec Fluid Systems Kit	As per Aquatec drawing IV.STD.T1.SS	40mm	BSPT threaded connections. Extension spindle to finished surface level may need to be fabricated	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	Acceptance yet to be determined	