

A	B	C	D	E	F	K	G	H	I	J
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	Gympie Regional Council (GRC)	Fraser Coast Regional Council (FCRC)	Bundaberg Regional Council (BRC)	North Burnett Regional Council	South Burnett Regional Council
<p>Notes:            WSAA Product Specification WSAA Product Specifications are available from www.wsaa.asn.au . Section 4 of the WSAA Product Specifications is for "Agency or Project Specific Requirements". The SEO 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. 'Flange' All flanges used for pressure systems shall be PN16 or PN35 complying with AS4087.</p>										
<b>Category: SEWERAGE PIPES AND FITTINGS - NON PRESSURE</b>										
1										
2										
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4										
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7										
8	PVC-U pipe and fittings - DWV system	230 4.1 - Plain Wall 4.2 - Elastomeric Seal 4.3 - Stiffness as per Z30.2.(c) or as required by SP 4.4 - RRJ @ SBR & EPDM	Iplex Vinidex Viadux Micron Pipelines Pipemakers	DWV PIPE DWV SEWER D-FLO Micron Pipelines Pipemakers	DN100 150 225 300 375    DN100 - DN300	Plain wall only accepted		DN100 at SN10, DN150 and larger at SN8 and Fittings at SN8 minimum		
9										
10	PVC-U Pressure pipe Sewer using Standard DWV JUNCTIONS	211 4.1 - PN12 4.2 - Deep Sewers or Minimum Cover 4.3 - Standard Packaging & Delivery 4.4 - Series 1	Iplex Vinidex Viadux		DN150 225 300			Mandatory for sewers deeper than 3 metres and for sewers with minimum cover All details to be confirmed with SP		
11										
12										
13										
14										
15	DI pipe	202S 4.1 - PN16 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 - Zinc/Bitumen coating or Polyurethane coating 4.6 - SBR, EPDM or NBR 4.7 - PE sleeving is required on all DI pipes unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	VonRoll / Reece	Ducpur / Ecopur	DN80 - 700	Polyurethane internal protection				
16	Steel pipe	203 4.1 - By design and PN16 min 4.2 - SEQ Code nominal DN's 4.3 - Seal coat not required for sewerage 4.4 - Extra protection by design 4.5 - Joints by design to SEQ Code Standards	Steel Mains	Sintapipe						
17										
18										
19	Polypropylene (PP) pipe	240 4.1 - Type B - ID Series 4.2 - SN10,000 4.3 - RRJ @ SBR & EPDM	Vinidex Iplex Enviropipes	SewerPRO SewerMAX EnviroPipe	DN150 - 900 DN225 - 600 DN150 - 900					Use is subject to acceptance by SP
20										
21										
22										
23										
24										
25	PE pipe - NuSewers	207 4.1 - Minimum PN8 SDR21 PE100 4.2 - Gravity Sewer fully welded 4.3 - Pipes lengths for DN160 and larger with coils accepted for DN110 4.4 - External colour light grey Solid or Striped with Internal colour white or light colour. see ROR203	Iplex Vinidex DMG Viadux Poly Pipe Enviropipes	POLIplex Sewertech Hi-Vis SewerFlex Enviropressure	DN110 160 250 315 400 500 630 800 1000 1200					
26										
27										
28										
29										
30										
31	PE fittings - Moulded	208 4.1 - PN10 preferred 4.2 - Electrofusion or butt welding 4.3 - Couplings and Saddles 4.4 - Bolting Flanges not permitted 4.5 - Elastomeric Seals not permitted And Electrofusion fitting Standards AS4129, EN1555, EN12201, EN13244-4	George Fischer / Iplex Friatec / Vinidex Plasson Agru Fusion Group/FusionPlast	Lightfit AGRU Fusamatic	Up to DN630			Spigot ended fittings, flanged tees and flanged saddles are not accepted by SP.		
32										
33	PE fittings - Fabricated	216 4.1 - PN10 preferred 4.2 - Electrofusion or butt welding Including Sweep Bends, MH Connectors, Sediment Traps, Tee and Bends for drop pipes and Sweep Junctions.	Vinidex Iplex			Electrofusion fitting to be long type. PE MH connectors shall have Hydrophilic seals both sides of puddle flange.				
34										
35										
36	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 Steinzeug Keramo Naylor / Rocla	Supersleeve Keramo Denlok	DN100-1200					May only be used as jacking pipes
37	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	Crevet Viadux			All DI fittings to be wrapped				NOT ACCEPTED BY SP
38										
39										
40	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 DEKS	Flex-Seal DEKS shear banded coupling	Up to DN600 DN100 to DN225					
41										
42										
43										
44										
45										
46	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	Viadux Crevet AVK Viking Johnson Derwent DEKS Daemco	Gibault - Ezigb & Varigb Gibault & Universal Gibault & Universal MaxiFit & QuickFit REINVERSAL	DN80 to DN600 Up to DN 600	Long type All DI fittings to be wrapped DI must have thermal bonded polymeric coating				
47										
1										
48										
49	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	Rocla Humes							Use is subject to acceptance by SP
50										
										Use is subject to acceptance by SP Coupling Grade 316 Stainless Steel (min.)

51	Polycrete pipe	4.3 - Compliance with AS/NZS 1546:2005, AS/NZS 1546:2006 and AS/NZS 1546:2007 4.4 - SBR and EPDM Sewer Pipe and Jacking Pipe approved	Global Pipe	Al Watani	DN200 to 2600															
52	CC-GRP (centrifugally cast) pipe and fittings - Sewer Pipe	2375 4.1 - PN1 4.2 - SN10,000 minimum 4.3 - Soc-Sp RRJ 4.4 - Standard Glass 4.5 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN400 - DN1400	Sewer Pipe								Use is subject to acceptance by SP						
53	FW-GRP (filament wound) pipe and fittings - Sewer Pipe	2055 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	Flowtite / Iplex	Flowtite	DN300 - DN3000	Sewer Pipe								Use is subject to acceptance by SP						
54			Global Pipe	Fiberstrong	DN300 - DN4000															
55			Superlit / Clover Pipelines	Superlit	DN300 - DN3000															
56	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	Hobas / Global Pipe	Hobas	DN250 - DN3600	Jacking pipes								Use is subject to acceptance by SP						
57			Empire Infrastructure	BOSSPIPE	DN300 - DN2000															
58			Superlit / Clover Pipelines	Superlit	DN400 - DN1400															
59	FW-GRP (filament wound) pipe and fittings - Jacking Pipe	206J 4.1 - As per product 4.2 - Pressure Class by design 4.3 - Stiffness Class by design 4.4 - Jacking Load by design 4.5 - 316 Stainless Steel (min) or GRP couplings 4.6 - SBR & EPDM 4.7 - Pipe Lengths to manufacturers requirements 4.8 - Standard Glass	Flowtite / Iplex	Flowtite	DN300 - DN3000	Jacking pipes								Use is subject to acceptance by SP						
60	Non-return valves	No WSA-PS	Iplex	Flap valve	DN50 to DN300	All DI fittings to be wrapped														
61				Reflux valve fabricated	DN100															
62				Vinidex	Flap valve											DN50 to DN100				
63				Hygrade Water	WaStop Non-return valves											DN75 to DN200				
64				Fluid Control	Red valve - Tidelflex check valves											DN50 to DN2400				
65	Knife gate valve - Stainless Steel	266 4.1 - PN10 4.2 - Wafer or Lugged 4.3 - Clockwise closing, rising spindle (Note: This is the only vendor complying with 316 SS throughout)	Pentair	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.									Subject to meeting the corrosion resistance requirements in Column F					
66			Challenger	Challenger																
67			AVFI	AVFI																
68			HMA Valveco	HMA Valveco																
69			AVK	AVK																
70	Knife gate valve - Fabricated Stainless Steel	266 4.1 - PN1 4.2 - Lugged 4.3 - Clockwise closing, rising spindle (Note: This is a low pressure type gate valve, suitable only for sewer	Australian Water Engineers	Australian Water Engineers	DN700 to DN1200	Body, Gate, Gland Follower, Spindle and Yoke / Pillar / Bridge stainless steel Grade 316. Seat EPDM. All fasteners stainless steel Grade 316.														
71	Knife gate valve - Ductile iron body	266 4.1 - PN10 4.2 - Wafer or Lugged 4.3 - Clockwise closing, rising spindle	Pentair	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														
72			Challenger	Challenger																
73			AVFI	AVFI																
74			AVK	AVK																
75																				
<b>Category: SEWERAGE PIPES AND FITTINGS - PRESSURE</b>																				
76	PVC-M pipe	209 4.1 - PN16 4.2 - Sewer Rising main 4.3 - Series 2 only 4.4 - Cream refer POP203	Iplex	BLUERHINO	DN100 150 200 225 250 300 & 375										NOT ACCEPTED BY SP					
77			Vinidex	Hydro																
78			Viadux	TUF-FLO																
79			Micron Pipelines	Micron Pipelines																
80			Pipemakers	Pipemakers Enviro-main																
81	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					
82			Vinidex	Supermain																
83			Micron Pipelines	Micron Pipelines																
84			Pipemakers	Alphamain																
85																				
86																				
87																				
88																				
89																				
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100																				
101																				
102																				
103																				
104																				
105	DI pipe	200 and WSA/TN6 4.1 - All Pressure Classes - see Column F 4.2 - Seal Coat not required for Sewerage 4.3 - Cement Mortar Linings - see Columns F-K 4.4 - 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, including those with a zinc-aluminium alloy coating, unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	Viadux	Tytonxcel	DN250 - 750 (not 225)	PN20, CAC lining for corrosive flows										Restraint joint seals not suitable for: PN20 pipe; Aboveground applications; Combining joint restraint and thrust blocks; Epoxy or fusion coated spigots (incl Tytonxtreme pipe); Other manufacturers sockets or other pipe materials. Cement mortar lining of any type is not permitted at locations where there is a potential of the pipe lining in contact with air/gas continuously or intermittently. At such locations, non-corrosive pipes or metal pipes with non-corrosive linings shall be used. All linings of pipes and fittings at such locations shall be non-corrosive.				
85	Viadux	LINX-GP																		
86	Vinidex	ZAP-GP																		
87	Viadux	Tytonxtreme																		
88	Vinidex	LINX-HAC																		
89	Vinidex	ZAP-HAC																		
90	Vinidex	Tytonxcel																		
91	Crevet / Iplex	Irontite																		
92	Vinidex	LINX-GP																		
93	Vinidex	ZAP-GP																		
94	Viadux	Tytonxtreme																		
95	Crevet / Iplex	Irontite																		
96	Vinidex	LINX-HAC																		
97	Vinidex	ZAP-HAC																		
98	Viadux	Tytonxcel																		
99	Vinidex	LINX-GP																		
100	Vinidex	ZAP-GP																		
101	Viadux	Tytonxtreme																		
102	Vinidex	LINX-HAC																		
103	Vinidex	ZAP-HAC																		
104	Saint-Gobain	Integral Zinalium																		
105																				

106	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, including those with zinc-aluminium alloy coating, unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	VonRoll / Reece	Ducpur/ Ecapur	DN80 - 700	Polyurethane internal protection	Use is subject to acceptance by SP												
107	DI fittings - bends, tapers, tees/branches, connectors, risers & caps/blank ends	201 4.1 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.2 - Standard and PN16 fittings 4.3 - Restrained Joint Seals by approval 4.4 - SBR & EPDM	Viadux	Tyton Joint	Up to DN750 (not 225)	Thermal bonded polymeric coating is the standard material in WSA PS 201 and WSA PS212 All DI fittings to be wrapped	Restraint joint seals not suitable for: PN20 pipe; Aboveground applications; Combining joint restraint and thrust blocks; Epoxy or fusion coated spigots (incl Tytonextreme pipe); Other manufacturers sockets or other pipe materials. Use of Restrained Joint Rubber Rings (Tyton-lok) subject to acceptance by SP.												
108			Crevet / Iplex	Crevet	Up to DN750 (not 225)														
109			Vinidex	Superlink	Up to DN750 (not 225)														
110			Derwent		Up to DN750 (not 225)														
111			Gilles		DN100 & DN150														
112			Himgiri Castings/Galvin Engineering / CivilPipes	Galvin	DN80 to DN300														
113			Dobbie Dico	Dobbie	DN100 to DN250														
114			Mallet	Mallet	DN80 to DN750														
115			No WSA-PS Refer Standard Drawing SEQ-WAT-1313-1 etc.									316 Stainless steel bolts	Grade 316 Stainless Steel (min.)						
116			316 SS repair and flanged off-take clamps	313 4.1 - Type R or F by SP approval 4.2 - Pipe DN by SP approval 4.3 - Off-take DN by approval 4.4 - Min. PN16	Crevet								DN100 to DN300	Min. PN16, Flanged off-take clamps approved on DI and CI host pipes only, to Pipe manufacturers specifications					
117					Viadux							Wang	DN100 to DN300						
118	Cascade Control	Rapid Clamps			DN40 to DN350														
119	Daemco	Norma Connect			DN80 to DN300														
120	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 And SS316 bolts, nuts and washers	Nova Siria/Hygrade Water	Duofit	DN 300 - DN2000		Use is subject to acceptance by SP												
121	Flange (DI) off-take clamps	327 4.1 - Pipe DN63 and larger ( see WSA PS 207 above ) - Off-take ID 20 mm minimum 4.2 - PN16 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 All DI fittings to be wrapped													
122	Metal-banded flexible couplings - Vacuum Valve coupling use only	235 4.1 - Need for adaptor bushes where difference between OD of pipe and ID of coupling greater than 16 mm 4.2 - Metal band and bolts shall be min SS316	Flex-Seal	Flex-Seal	Up to DN600		NOT ACCEPTED BY SP												
123			DEKS	DEKS shear banded coupling	DN100 to DN225														
1	<b>Product</b>	<b>WSAA Product Specification No. with Service Provider Specific Requirements</b>	<b>Manufacturer / Supplier</b>	<b>Trade Name</b>	<b>Size Range</b>	<b>Specified Requirements / Minimum Class</b>	<b>Gympie Regional Council (GRC)</b>	<b>Fraser Coast Regional Council (FCRC)</b>	<b>Bundaberg Regional Council (BRC)</b>	<b>North Burnett Regional Council</b>	<b>South Burnett Regional Council</b>								
124	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 And SS316 bolts, nuts and washers	Viadux	Gibault - Ezigb & Varigb		Long type All DI fittings to be wrapped DI must have thermal bonded polymeric coating													
125			Crevet	Gibault & Universal															
126			AVK	Gibault & Universal															
127			Viking Johnson	MaxiFit, QuickFit															
128			Derwent																
129			DEKS	DEKS FLEXI-GIB			DN80 to DN600												
130			Daemco	Reinoversal			Up to DN 600												
131			DI mechanical fittings - End Thrust Restraint (Gripper Type)	271 for DI, 245 for PE 4.1 - PN16 4.2 - DI and PE 4.3 - Short and Long Series 4.4 - Straight and Stepped and Flange Adaptor 4.5 - All DN Range options 4.6 - Flange Figure as specified with SS316 bolts, nuts and washers 4.7 - SBR & EPDM & Nitrile And SS316 bolts, nuts and washers	DI mechanical fittings - End Thrust Restraint (Gripper Type)		System 2000 for PE Synoflex PN16 Restraint for AC, PVC, DICL, SCL, PE		All DI fittings to be wrapped	Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations The use of gripper type fittings on AC, PVC, DI and SCL pipe is subject to acceptance by SP									
132					AVK		Supa Plus Restraint for PE												
133					+GF+		Multijoint 3000 Plus restraint type for AC, PVC, DI, SCL, PE												
134					Viking Johnson		Aquafast and Aquagrip Restraint for PE	DN50-DN300											
135	Nova Siria/Hygrade Water	Multigrip	DN350-DN1400																
136	DI flanged telescopic flexible fitting	No WSA-PS Aligned to WSA_PS 201 and 270 with Flanges to AS 4087 Figure B5 To comply with WSA PS-201S when published	Hawle / Hygrade Water WSA PA 12/09	Vario	DN50 - DN200	All DI fittings to be wrapped													
137	Dismantling joints for Flange Pipe and Fittings	201 4.1 - FI-FI for DJ & FVSp for UniFlange 4.2 - Thrust type and non-thrust type minimum PN16 4.3 - Thrust Restraint by Fitting 4.4 - SBR & EPDM	Viadux			Thrust restraint type and non-thrust type are Flanged to AS4087 PN16. SS316 bolts, nuts and washers. Larger sizes of UniFlange shall be assessed for available Fitting PN vs Pipeline Test Head. All DI fittings to be wrapped	Uni-flange to be used within pit or aboveground locations only												
138			Viking Johnson																
139			Valveco	Uni-Flange Adaptor	DN50-DN500														
140			Hygrade Water	Pipemate	DN80-DN900														
141			AVFI	AFD10 Series	DN80-DN1200														
142	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	MILLENNium HSCR PE	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 SS316 tracer wire. Pipe wall thickness to be designed for installation forces.	PE is preferred pipe material  Use is subject to acceptance by SP												
143			Vinidex																
144			DMG	Hi-Vis															
145			Viadux																
146			Poly Pipe	SewerFlex															
147			Cromford	Identipipe															
148			Enviropipes	Enviropressure															
149			ACP	ACP															
150			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 SS316 tracer wires. Pipe wall thickness to be specified as normal PE100 as such "extra" strength should be provided.						
151			PE fittings	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 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.	Spigot ended fittings, flanged tees and flanged saddles are not accepted by SP					
152					Friatec / Vinidex	Friaten						DN63XDN32 to DN350XDN90							
153	Plasson	AGRU			Up to DN630														
154	Fusion Group / FusionPlast	Fusamatic			Up to DN630														
155	NUPIGECO	Elofit			DN20 to DN710														
156	Full face PE flanges	208 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	Plasson		DN80/DN100	Slotted flanges & backing rings suit both DN80 and DN100 to WSAA 98/50 Full bore connections	Use of stub flanges is subject to acceptance by SP												
157			Iplex		Up to DN355														
158			Friatec / Vinidex	Friaten	Up to DN180	Metal insert in the flange, backing rings not required						Use is subject to acceptance by SP							
159	Full face PE flanges	216 4.1 - PN16 4.2 - Electrofusion and butt weld	Rodney / Vinidex	Maxi Stub	Up to DN355	Full bore connection													
160																			

161	Steel pipe	203 4.1 - MPa 1.6 minimum 4.2 - DN by Design subject to SP approval 4.3 - Seal Coat not required 4.4 - Sintakote minimum for above ground 4.5 - Joint requirements by Design 4.6 - Cathodic Protection by design 4.7 - Standard pressure tests 4.8 - Sintapipe lining 4.9 - SBR & EPDM	Steel Mains	Sintapipe	DN324 - 813	RRJ unless otherwise approved					Use is subject to acceptance by SP		
162	Stainless Steel Pipe	No WSA-PS WSAA Materials Fact Sheet No:2 Selection of Stainless Steels WSAA Materials Fact Sheet No:3 Fabricating Stainless Steels	ASSDA accredited fabricators	N/A	DN100 - DN750	Min. Grade 316 Min. PN16 Flange to AS4087 Fig B5					Use is subject to acceptance by SP		
163	Resilient seated gate valves, thermal bonded polymeric coating	260 4.1 - PN16 4.2 - All End configurations accepted 4.3 - Integral By-pass on DN450 and larger (Unitywater accepts either integral or constructed by-pass as per job specification) 4.4 - Gear Box on DN600 and larger (Refer Mechanical List) 4.5 - FCRC and NBRC only accept valves with clockwise close; BRC, GRC and SBRC only accept valves with anti-clockwise close 4.6 - No requirement for spindle cap colour 4.7 - Extension Spindle to WSA PS - 262 4.8 - Spindle Cap 4.9 - SBR & EPDM	AVK	Series 57 (light type only for DN100 & 150) Series 570 Series 36/80 Series 01/71 Series 55	Up to DN400 Up to DN400 Up to DN300 Up to DN300 DN450 to 600	For PE pipes PE gripper Sluice Valves by Hawle E2 System 2000 or AVK Supa Plus Coupling Series 01/70 or equal Sluice Valves with PE stubs for electrofusion acceptable. Some valves may not need by-pass (check with SEQ SPs). All DI fittings to be wrapped	Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.				Use is subject to acceptance by SP		
164			Hawle	E2									
165			Viadux	Series 500 Auslite II Auslite III	DN200 - DN300 Up to DN 400								
166			Karon / Challenger	Karon	DN80 - DN600								
167			AVFI	BETTA	DN100 - DN375								
168			Beta	Maxflo/appFLO	DN80 to DN300								
169			AAP Industries	Derwent	DN80 - DN600								
170	DAEMCO		DN80 to DN300										
171						WSAA Appraisal 11/26 Issue 2 WSAA Appraisal 1511 WSAA Appraisal 1517 (10/05/16)							
1	<b>Product</b>	<b>WSAA Product Specification No. with Service Provider Specific Requirements</b>	<b>Manufacturer / Supplier</b>	<b>Trade Name</b>	<b>Size Range</b>	<b>Specified Requirements / Minimum Class</b>	<b>Gympie Regional Council (GRC)</b>	<b>Fraser Coast Regional Council (FCRC)</b>	<b>Bundaberg Regional Council (BRC)</b>	<b>North Burnett Regional Council</b>	<b>South Burnett Regional Council</b>		
172		274 4.1 - PN16 4.2 - Body material: 316 stainless steel 4.3 - by product 4.4 - BSPT thread 4.5 - Clockwise closing	Pentair / Viadux	Keystone	Up to DN50								
173	Ball Valves		AVFI	V1 Series - 1 Piece V2 Series - 2 Piece V3 Series - 3 Piece V2FH Series- Flanged	DN8 - DN50 DN8 - DN100 DN8 - DN100 DN15 - DN50	BSPT threaded connections Suitable for sewage							
174	CC-GRP (centrifugally cast) pipe and fittings - Sewer Pipe	237S 4.1 - PN1 4.2 - SN10,000 minimum 4.3 - Soc-Sp RRJ 4.4 - Standard Glass 4.5 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN400 - DN1400	DI Fittings to WSA PS 201 for Tees and Bends					Use is subject to acceptance by SP Coupling - Grade 316 Stainless Steel (min.)		
175	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	Flowtite / Iplex	Flowtite	DN300 - DN3000						Use is subject to acceptance by SP Coupling - Grade 316 Stainless Steel (min.)		
176			Global Pipe	Fiberstrong	DN300 - DN4000								
177			Superlit / Clover Pipelines	Superlit	DN300 - DN3000								
178	Flowmeter - Network Meter	No WSA-PS 4.1 - Flange to AS4087 Figure 5 4.2 - PN16	ABB	ABB							ABB Water master		
179			Siemens	Siemens								Use is subject to acceptance by SP	
180			E & H	E & H								Use is subject to acceptance by SP	
181			Emerson	Emerson									
1	<b>Product</b>	<b>WSAA Product Specification No. with Service Provider Specific Requirements</b>	<b>Manufacturer / Supplier</b>	<b>Trade Name</b>	<b>Size Range</b>	<b>Specified Requirements / Minimum Class</b>	<b>Gympie Regional Council (GRC)</b>	<b>Fraser Coast Regional Council (FCRC)</b>	<b>Bundaberg Regional Council (BRC)</b>	<b>North Burnett Regional Council</b>	<b>South Burnett Regional Council</b>		
182	<b>Category: SEWERAGE MISCELLANEOUS ITEMS</b>												
183	Maintenance structure covers, frames and risers	290 4.1 - DN600 4.2 - Round Solid Top ( Conc Infill - QUU only ) Sealed Type 4.3 - 600 mm Clear Opening 4.4 - Class B and Class D 4.5 - Rocking of cover in frame not permitted 4.6 - Lifting Key as per Standard Drawings 4.7 - Markings to AS3996 Clause 1.6 (a) to (f). 4.8 - No Hinge 4.9 - Standard Packaging and Delivery 4.10 - QUU require QUU cast in as per Standard Drawings 4.11 - Standard Coating 4.12 - Bolt down for Surcharge and overland flow areas, 4 x M8 (min) SS316 Bolts 4.13 - by Standards	Gatic / Milne				Refer Standard Drawings. Covers with another Service Provider's name not accepted. Use of Square and Rectangular Covers and Frames subject to SP approved based on Design needs					Concrete Infill Covers NOT ACCEPTED BY SP	
184			East Jordan (Havestock)										
185			Webforge										
186			Tellam										
187			Durham										
188			Hygrade										
189	Maintenance shaft covers, frames and risers DN<=450	292 4.1-DN<=450 Round 4.2-DN360 min clear opening 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-No bolt down required	Smartstream	Smartstream Top Hat- P8HDS		DI-Class D							
190			Smartstream	Smartstream Top Hat- P8PEC		PE - Class B							
191			SYI Foundry/Aymroo	Aymroo	360 mm clear opening	CI - Class B							
192	Maintenance hole lightweight composite lids and frames (non-corrosive)	292 4.1-DN<=600 Round 4.2-DN600 min clear opening 4.3-Standard Lifting Key 4.4-Markings to AS3996 Clause 1.6 (a) to (f) 4.5-Standard packaging 4.6-No specific markings required 4.7-Bolt down for Surcharge and overland flow areas, 2 x M8 min SS316 Bolts	Terra Firma			Composite - Class B and D					Use is subject to acceptance by SP		
193			ACO SAKU			Composite - Class B							
194			Prime Composites			Composite - Class B and D						Use is subject to acceptance by SP	
195	Emergency Storage maintenance hole cover	290 4.1 - DN1000 4.2 - Two part round 4.3 - 920 mm Clear Opening 4.4 - Class C 4.5 - Rocking of cover in frame not permitted 4.6 - Hand grip lifting points 4.7 - No requirements 4.8 - Central Hinge not required 4.9 - Standard Packaging and Delivery 4.10 - No requirements 4.11 - No requirements 4.12 - 4 x 3/8" Allen Key SS 316 Bolts	Treloar	MC1000-Manway Cover	DN900	Class C Fabricated S/Steel grade 316 ring Nitrile gasket seal							
196	Step irons	314 4.1 - Single Step 4.2 - Complies with Figure 5.10 of AS1657 4.3 - Steel bar internal with Plastic encapsulation or SS316 4.4 - Plastic encapsulation or SS316 4.5 - No reflectors required 4.6 - No other safety devices required	Myama / Nextep	Myama							NOT ACCEPTED BY SP		
197			Aymroo	Aymroo									
198			C & C Plastics / Havestock	Posistep									
199			Industrial Steps & Ladders	Sure-Step			M053						

200		315 4.1 - Type D - Fixed Ladder with two Stiles 4.2 - PBT, FRP, SS316, Galvanised Steel or Aluminium 4.3 - By Standards 4.4 - By Standards 4.5 - Reflectors optional 4.6 - 150 mm from CL of rung to MH wall 4.7 - By Standards 4.8 - Colour as per material 4.9 - SS 316	Miyama / Nextep	Miyama		Fibre reinforced plastics (yellow). Brackets & Fasteners to be SS316 Min. Clearances for Rung Type Ladders as per AS1657 Fixed Platforms, Walkways, Stairways and Ladders - Design and Installation	NOT ACCEPTED BY SP				
201			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.					
202			Galvanised Steel			Refer to Standard Drawings					
203	Ladders		Stainless Steel or Aluminium								
204		321 4.1 - As per Standards 4.2 - As per Specifications 4.3 - As per Standards 4.4 - Inlet and Outlet at DN150 to DN225 4.5 - Configurations as shown in Standard drawings 4.6 - As per accepted product 4.7 - Inlet and Outlet Sewer connection RRJ 4.8 - Cap as shown in Standard Drawings 4.9 - As per Standard Drawings 4.10 - Connect to PCV-U DWV pipe 4.11 - Max depth 3.0 metres FSL to Invert of Sewer Pipe	Aymroo	Aymroo			DN225 risers not accepted. Min DN300 risers are accepted.				
205	Maintenance Shaft PVC		SMS	SMS # MS3 DN150 Only	DN225 PVC-U Riser Shaft	Configurations of "Central Axis" maintenance shaft (CAMS) are not accepted					
206		322 4.1 - As per Standards 4.2 - As per Specifications 4.3 - As per Standards 4.4 a - Inlet and Outlet at DN150 to DN225 for PVC RIGSS 4.4 b - 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 a - Inlet and Outlet PVC Sewer connection RRJ 4.7 b - 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 DN225 PVC riser shaft. Nusewer fully welded with DN250 PE risers and sewer stubs.	DN225 risers not accepted. Min DN300 risers are accepted.				
1	<b>Product</b>	<b>WSAA Product Specification No. with Service Provider Specific Requirements</b>	<b>Manufacturer / Supplier</b>	<b>Trade Name</b>	<b>Size Range</b>	<b>Specified Requirements / Minimum Class</b>	<b>Gympie Regional Council (GRC)</b>	<b>Fraser Coast Regional Council (FCRC)</b>	<b>Bundaberg Regional Council (BRC)</b>	<b>North Burnett Regional Council</b>	<b>South Burnett Regional Council</b>
207	Maintenance Shafts Polypropylene - DN425 and DN600 risers	337, 341 4.1 - DN425 and DN600 Risers 4.2 - Polypropylene Riser 4.3 - DN425 SN4 & DN600 SN8 riser pipe 4.4A - DN425 Base with DN150 sewer 4.4B - DN600 Base with DN150/225 sewer 4.5 - In-line and bends and tees 4.6 - Base and Riser ribbed 4.7A - EPDM or SBR Ring Joints RIGSS 4.8 - No locking or relief cap 4.9 - Standard MH surround, cover and frame 4.10 - Max depth 3.0 meters to Invert of Sewer Pipe	Iplex	EZpit PA 09/01 & PA 09/1-2		Refer Standard Drawings	Approved for DN150 to DN225 RIGSS only as per cell B, Base is single DN size, NOT ACCEPTED FOR NUSEWER				
208	Maintenance Shafts Polypropylene - DN225 and DN300 risers	341 4.1 - DN225 and DN300 Risers 4.2 - PVC Riser 4.3 - SN8 riser pipe 4.4 - DN150 sewer 4.5 - In-line and bends and tees 4.6 - Base ribbed, Riser Solid Wall PVC 4.7 - EPDM or SBR Ring Joints RIGSS 4.8 - Locking relief cap as per Standard Drawings 4.9 - Standard MH surround, cover and frame 4.10 - Max depth 3.0 meters to Invert of Sewer Pipe	SMS	SMS PA 09/08 parts 0 to 5 Code: MS1 Code: MS2 Code: MS5			Approved for DN150 RIGSS only. DN225 risers not accepted. Min DN300 risers are accepted.				
209			REHAU	OD400-GD (Type H12) OD400-RML (Type H13)		Refer Standard Drawings					
210		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 cover 4.6 - No special treatments 4.7 - Base format as per SEQ SP approval 4.8 - Configurations as per Standard Drawings	Humes		MH and MS DN150 and DN225 sewers	Refer Standard Drawings Use for larger Sewer DN's and MH diameters is subject to acceptance by SP Max depth of DN600 MS FSL to Invert of Pipe is 3.0 meters	Pre-cast MHs accepted Use of MS is subject to acceptance by SP				
211	Pre-cast Maintenance Holes		Rocla								
212	Pre-cast Concrete Converter Slab for Cast In-situ MHs	No WSA-PS Refer Standard Drawings	Everhard			Refer Standard Drawings Calcareous aggregates to be used					
213			Tellam								
214	Plastic Maintenance Holes	No WSA-PS Refer details of Type K1 on SEQ-SEW-1314-2 Minimum DN1000 chamber and DN600 neck	Smartstream	Smart Pit	DN150 to DN300 sewers	Refer Standard drawings Max depth FSL to Invert of Pipe is 3.0 meters					
215	Vent poles	325 Project Specific outcome Product Appraisal Report PA 0906 for RPC	RPC Technologies			Refer Standard Drawings Tapered, Galvanised, height as design preferred colour: heritage or mist green	Use is subject to acceptance by SP Minimum accepted Height 6.0 m				
216			Ingal EPS								
217			Viadux								
218			NIBF			Refer Water Code Standard Drawings for approved Valve Box and Cover					
219	Valve box and cover C.I. & D.I.	No WSA-PS Refer details on SEQ-WAT-1305-1 and SEQ-WAT-1305-2	Gatic / Milne								
220			Tellam								
221	Loose PE sleeving to DI pipe	320 Cream Colour to RCP203	Viadux	BLUEBOSS Cream		Mandatory sleeving to all DI pipe					
222	Embedment material - crushed rock	351 4.1 - Single sized 4.2 - Moisture Content by design									
223	Embedment material - recycled concrete	366 4.1 - Single sized 10 mm nominal 4.2 - Moisture Content by design	Queensland Recycling				NOT ACCEPTED BY SP				
224											
225	Concrete-Normal Class	357 4.1 - As follows N20 Thrust Blocks N25 for reinforced embedment 4.2 - Slump as required for placement									
226	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					Calcareous aggregate size to be 10mm minimum. Admixtures shall be non-chloride type				
227			ARI Flow control								
228			Bermad								
229			Vent-O-Mat								
230			Odour Technologies	Vinloc-Smartvalve							
231			AVFI	ARV-3-N							
232	Gas release valves	Type of Port - Full and Reduced port Type of Valve - As per design needs	ISCO	Vent Master PX	DN50-DN200	PN16, Anti Slam as required, Thermal bonded polymeric coating or 316 Stainless steel					
233			HMA Valveco	Valmatic Swing-flex	DN50 - DN600						
234			Dobbie Dico	Dobbie Dico	DN80-DN900						
235		Refer Appendix B of AS4794 a) Class - PN16 min - Size by Design b) Medium - Sewage	AVK	AVK Swing Check Valve 41/25	DN50		NOT ACCEPTED BY SP				

236	Non-return valves -	c) Installation - Horizontal	AVK	AVK Swing Check Valve 41/8X	DN80-DN300						
237	Swing check with counterweight lever arm	d) Spindle - Extended	Challenger Valves	Challenger - RSSC	DN80-DN375						
238		e) Lever and Counterweight minimum with switches and indicators by Design	AVFI Pty Ltd	AVFI - RSFC	DN50-DN300	MIN. PN16, Thermal bonded polymeric coating					
239			HMA Valveco	Valmatic Swing-flex	DN50 - DN600						
240		264	Dobbie Dico	Dobbie Dico	DN80-DN900						
241		Refer Appendix B of AS4794	AVK	AVK Swing Check Valve 41/25	DN50						
242		a) Class - PN16 min - Size by Design	AVK	AVK Swing Check Valve 41/8X	DN80-DN300						
243		b) Medium - Sewage	Challenger Valves	Challenger - RSSC	DN80-DN375						
244	Non-return valves - free acting (without counterweight) Swing Check	c) Installation - Horizontal d) Spindle - Extended j) Flanged to AS 4087 Figure B5	AVFI Pty Ltd	AVFI - RSFC	DN50-DN300	MIN. PN16, Thermal bonded polymeric coating					Use is subject to acceptance by SP
245			Vinidex								
246		230	lplex			DWV uPVC Moulded Fitting reinforced to SEQ Standards. Type D Junction from moulded fittings welded and fibreglass wrapped.					
247		4.1 - Plain Wall only	Fablit	Deep Sewer Junction & Reinforced Fittings such as Oblique Junctions and House Connection Bends and Inspection Tees	DN100-300	45 Deg Oblique Jn and Property Connection bends and Inspection Tees fibreglass wrapped. Fabricator has Certification to Section 6 of AS/NZS 1260 and fittings Fibreglass wrapped as shown on the drawings. SEQ-SEW-1104-1 and SEQ-SEW-1105-1.					DN100 at SN10, DN150 and larger at SN8 and Fittings at SN8 minimum
248	PVC-U Fabricated Fittings Fibreglass reinforced PVC Type 'D' junctions & fittings	4.2 - Solvent Cement joints for Fabricated assemblies with Elastomeric Seal on Fitting Socket Ends 4.3 - Pipe DN100 @ SN6 min and Pipe DN150 and larger SN8 min. Fittings SN6 min 4.4 - RRJ @ SBR & EPDM	M.E. Christensen								

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249		236	Vinidex								
250		4.1 - SN8 minimum	lplex								
251		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.	Tri Underground								
252		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	Fablit								
253	PVC-U SN8 long radius bends	4.2.3 - All long radius bends by Certified fabricators to AS/NZS 1260 Section 6	M.E. Christensen	Long radius 3000 mm bends	DN150 as bent pipe & DN225 as bent or fabricated pipe	AS/NZS 1260 SN8 DN150 Bends available from 5Deg to 45Deg. DN225 and larger individually fabricated to 45Deg.					
254		318	Boddingtons								
255		4.1 - Tape/Product Colour - Drinking Water = Blue Non-Drinking Water = Purple. Sewerage = Cream	Tapex								
256	Detectable marker tape	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	Rain Harvesting	421							
257	Tracer wire	343	Tapex	Copperhead	500, 1000 and 2500 (feet)	Approved are SoloShot EHS and SoloShot Xtreme For HDD and Pipe bursting etc. Components of test station, connector and grounding anode are accepted					
258	Security fencing					AS1725.1 Chain Link Fabric Fencing-powder coated black					
259	Hydrophilic Seal			Hydrotite							
260	Casing Spacers	324	kwik-ZIP	kwik-ZIP	HDX Series with Runner height of 38, 65, 90 and 125 mm	For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes					
261	Protective lining & coating (including PE lining)	Refer to Mechanical IPAM list	Refer to Mechanical IPAM list	Refer to Mechanical IPAM list	Refer to Mechanical IPAM list	Refer to Mechanical IPAM list					Refer to Mechanical IPAM list
262	Camlock					S/Steel 316					Maximum DN100

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**Category: WATER SUPPLY PIPES - PRESSURE**

264		209	lplex	Reiber Blue							
265		4.1 - PN16	Vinidex	Hydro Blue	DN100 to DN300						
266		4.2 - Drinking Water	Viadux	Tuf-Flo							NOT ACCEPTED BY SP
267		4.3 - Series 2 only	Micron Pipelines	Micron Pipelines	DN100 to DN300						
268	PVC-M pipe	4.4 - Blue 4.5 - SBR & EPDM	Pipemakers	Pipemakers Enviromain		Series 2 PN16, Min SN 10 Reiber ring accepted					
269		210	lplex	Apollo Blue	DN100 to DN300						
270		4.1 - PN16	Vinidex	Supermain							
271		4.2 - MRS400 or MRS450	Micron Pipelines	Micron Pipelines	DN100 - DN375	Series 2 PN16, Min SN 10 MRS400 or MRS450					
272	PVC-O pipe	4.3 - Water main 4.4 - Series 2 only, Blue for Drinking Water and Purple for No-Drinking Water refer POP203 4.5 - SBR & EPDM	Pipemakers	Alphamain	DN100 to DN150						
273			Viadux	Tytonxcel							
274			Vinidex	LINX-GP							
275			Vinidex	ZAP-GP	DN250 - 750 (not 225)	PN 20					
276			Viadux	Tytonxcel							
277			Crevet / lplex	Ironite							
278			Vinidex	LINX-GP							
279			Vinidex	ZAP-GP		PN 35					
280		200	Viadux	Flange Class							
281		4.1 - All Pressure Classes - see Column F	Vinidex	LINX-GP							
282		4.2 - As per Standards	Vinidex	ZAP-GP	Up to DN750 (not 225)	Flange Class					
283	DICL pipe	4.3 - As per accepted product 4.4 - 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, including those with zinc-aluminium alloy coating, unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	Saint-Gobain	Hydroclass Zinalium	DN100 - DN750 (not 225)	PN35, Flange Class					Use is subject to acceptance by SP

Seal coat on pipes >= 450  
Seal coat requirement is dependant on water quality.  
PN20 - Use is subject to acceptance by SP Restraint joint seals not suitable for:  
PN20 pipe; Aboveground applications;  
Combining joint restraint and thrust blocks;  
Epoxy or fusion coated spigots (incl Tytonextreme pipe);  
Other manufacturers sockets or other pipe materials.

284	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, including those with zinc-aluminium alloy coating, unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	VonRoll / Reece	Ducpur/ Ecopur	DN80 - 700	Polyurethane internal protection	Use is subject to acceptance by SP				
285	Small DN Ductile Iron Water Main pipe at PE OD's		Saint-Gobain PAM	BLUTOP	DN75-DN160	Restrained Joints PN16 Unrestrained joints PN25	Use is subject to acceptance by SP				
286	SCL pipe	203 4.1 - MPa 1.6 minimum 4.2 - DN by Design subject to SP approval 4.3 - Seal Coat required for DN450 and larger 4.4 - Sintakote minimum for above ground 4.5 - Joint requirements by Design 4.6 - Cathodic Protection by design 4.7 - Standard pressure tests 4.8 - Sintapepe lining option 4.9 - SBR & EPDM	Steel Mains	Sintakote	OD114, 168, 219, 257, 273, 324 to 2159.	Minimum thickness DN100 - 4.8 mm, >DN100 - 5 mm	Seal Coat requirement is dependant on water quality				
287	PE pipe	207 4.1 - PN16 SDR11 PE100 4.2 - Drinking and Non-Drinking Water 4.3 - Pipes lengths for DN160 and larger and coils accepted for DN110 and smaller 4.4 - Mains Colour Blue Solid for Drinking Water and Purple solid for Non-Drinking Water with Water Service pipe Black with Blue Stripes for Drinking Water and Purple solid for Non-Drinking Water, refer POP203. 4.5 - PE100 only	Iplex		OD25 32 40 50 63 90 125 180 250 315 355 450 560 630 800	PE100 PN16 Blue colour - solid or striped for drinking water Purple colour - solid for non-drinking water For directional drilling installations, minimum SDR 9 (PN20 PE100) unless specified otherwise and install with SS316 tracer wire. Pipe wall thickness to be designed for installation forces.	Use is subject to acceptance by SP				
288			Vinidex								
289			DMG								
290			Cromford	Identifi-pipe							
291			Poly Pipe								
292			Viadux	Advantage/TYCO10							
293			Enviropipes	Enviropressure							
294	ACP	ACP									
295	PE pipe - High Stress Crack Resistant (HSCR) Polyethylene Pipe	207, POP16 4.1 - PN16 minimum 4.2 - Drinking and Non-Drinking Water 4.3 - Pipes lengths for DN160 and larger and coils accepted for DN110 and smaller 4.4 - Mains Colour Blue Solid for Drinking Water and Purple solid for Non-Drinking Water with Water Service pipe Black with Blue Stripes for Drinking Water and Purple solid for Non-Drinking Water, refer POP203. 4.5 - HSCR PE100 only	Iplex	Millennium HSCR PE	DN25 32 40 50 63 90 125 180 250 315 355 450 560 630 800	For directional drilling and pipe bursting installations, minimum SDR 9 (PN20 HSCR PE100) unless specified otherwise and install with SS316 tracer wires. Pipe wall thickness to be specified as normal PE100 as such "extra" strength should be provided.					
296	Copper pipe	214 4.1 - Annealed for all pipe 4.2 - Natural pipe colour	Port Kembla Copper				Use is subject to acceptance by SP				
297	CC-GRP (centrifugally cast) pipe and Fittings - Water main	237 4.1 - PN16 minimum 4.2 - SN 10,000 minimum 4.3 - Sp-Sp RRJ Coupling and FI Joints 4.4 - Standard Glass 4.5 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN400 - DN1400	Minimum SN10000, PN16	Use is subject to acceptance by SP				
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298		205 4.1 - DN300 and larger 4.2 - PN16 minimum 4.3 - SN 10,000 minimum 4.4 - Standard bend forms permitted 4.5 - Sp-Sp RRJ Coupling and FI Joints 4.6 - Standard Glass	Flowtile / Iplex	Flowtile	DN300 - DN3000		Use is subject to acceptance by SP				
299			Global Pipe	Fiberstrong	DN300 - DN4000						
300	FW-GRP (filament wound) pipe and Fittings - Water main		Superlit / Clover Pipelines	Superlit	DN300 - DN3000	Minimum SN10000, PN16					
301	Stainless Steel Pipe	No WSA-SP WSAA Materials Fact Sheet No:2 Selection of Stainless Steels WSAA Materials Fact Sheet No:3 Fabricating Stainless Steels	ASSDA accredited fabricators	N/A	DN100 - DN750	Min. Grade 316 Min. PN16 Flange to AS4087 Fig B5	Use is subject to acceptance by SP				
1	<b>Product</b>	<b>WSAA Product Specification No. with Service Provider Specific Requirements</b>	<b>Manufacturer / Supplier</b>	<b>Trade Name</b>	<b>Size Range</b>	<b>Specified Requirements / Minimum Class</b>	<b>Gympie Regional Council (GRC)</b>	<b>Fraser Coast Regional Council (FCRC)</b>	<b>Bundaberg Regional Council (BRC)</b>	<b>North Burnett Regional Council</b>	<b>South Burnett Regional Council</b>
302	<b>Category: WATER SUPPLY FITTINGS - PRESSURE</b>										
303	Lightweight DI bends, tees/branches & connectors	201 4.1 - Soc-Soc, Soc-FI & FI-FI 4.2 - PN16 fittings 4.3 - By approval	Viadux	Auslite	DN100 & DN150	Lightweight fittings Thermal bonded polymeric coating All DI fittings to be wrapped	Use of Restrained Joint Rubber Rings (Tyton-lok) subject to acceptance by SP				
304			Dobbie Dico	Dobbie	DN100 to DN150						
305			Himigiri Castings/Galvin Engineering / CivilPipes	Galvin	DN100 & DN150						
306	DI bends, tapers, tees/branches, connectors, risers & caps/blank ends	201 4.1 - Soc-Soc, Sp-Sp, FI-FI, Soc-Sp, Soc-FI & Sp-FI 4.2 - Standard and PN16 fittings 4.3 - Restraint Joint Seals by SP approval 4.4 - SBR & EPDM	Viadux	Tyton Joint	Up to DN750 DN100 & DN150 DN80 to DN300 DN100 to DN250 DN80 to DN750	Thermal bonded polymeric coating All DI fittings to be wrapped	Use of Restrained Joint Rubber Rings (Tyton-lok) subject to acceptance by SP				
307			Crevet / Iplex	Crevet							
308			Vinidex	Superlink							
309			Derwent								
310			Gilles								
311			Himigiri Castings/Galvin Engineering / CivilPipes	Galvin							
312			Dobbie Dico	Dobbie							
313	Mallet	Mallet									
314	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 And SS316 bolts, nuts and washers	Viadux	Gibault E2gb & Vari-Gib	Up to DN750	Long type All DI fittings to be wrapped DI must have thermal bonded polymeric coating					
315			Crevet	Gibault & Universal Multigib							
316			AVK	Gibault & Universal							
317			Viking Johnson	MaxiFit, QuickFit							
318			Derwent								
319			DEKS	DEKS FLEXI-GIB							
320			Daemco	Reinversal							
321	DI mechanical couplings - End Thrust Restraint (Gripper Type)	271 4.1 - PN16 4.2 - DI 4.3 - Short and Long Series 4.4 - Straight and Stepped and Flange Adaptor 4.5 - All DN Range options 4.6 - Flange Figure as specified with SS316 bolts, nuts and washers 4.7 - SBR & EPDM & Nitrile And SS316 bolts, nuts and washers	Hawle / Hygrade Water	Synoflex PN16 Restraint coupling for AC, PVC, DICL, SCL	DN50-DN300		The use of gripper type fittings on AC, PVC, DI and SCL pipe subject to acceptance by SP				
322			+GF+	Multi/ joint 3000 Plus restraint type for AC, PVC, DICL, SCL							
323			Nova Siria/Hygrade Water	Multigrip for all pipe material, For PVC and PE pipes use Nova Siria reinforcing liner inside the pipe when installing multigrip							
324	DI flanged telescopic flexible fitting	No WSA-PS Aligned to WSA_PS 201 and 270 with Flanges to AS 4087 Figure B5 To comply with WSA PS-201S when published	Hawle / Hygrade Water	Vario WSA PA 12/09	DN50 - DN200						
325	Small DN Ductile Iron Restraint Fittings at PE ODs		Saint-Gobain PAM	IZIFIT	DN75-DN160	For use directly with PE and BLUTOP pipe.	Use is subject to acceptance by SP				

326		201	Viadux	Readytap	DN100 to 300						
327		4.1 - Soc-Soc only	Crevet / Iplex	Pretapped	DN100 & DN150						
328		4.2 - Standard and PN16 fittings	Vinidex	Superlink	DN100 & DN150	Thermal bonded polymeric coating					
329		4.3 - Restraint Joint Seals by approval	Himigiri Castings/Galvin Engineering / CivilPipes	Galvin	DN100 & DN150	DN100 to DN150 with 4 x 20BSP Tappings at 2 per side and DN200 to DN300 1 x 50BSP Tapping					
330	Pretapped connectors	246	4N Products & Stockbrands	Supertap	DN100 & 150	Only used on Series 2 PVC pipe Not suitable for DI pipe WSAA Appraisal 12/18				Use is subject to acceptance by SP	
331		4.1 - Blue or Black for DW and Purple for NDW	Crevet	Wang	DN100 to DN300						
332			Viadux	Wang	DN100 to DN300						
333		313	Cascade Control	Rapid Clamps	DN40 to DN350						
334	316 SS repair clamps, flanged off-take clamps & BSP tapping clamps	4.1 - Type R or F by SP approval 4.2 - Pipe DN by SP approval 4.3 - Off-take DN by approval 4.4 - Min. PN16	Daemco	Norma Connect	DN80 to DN300	Min. PN16, Flanged off-take clamps approved on DI and CI host pipes only, to Pipe manufacturers specifications					
335	Repair Couplings	270	Nova Siria/Hygrade Water	Duofit	DN 300 - DN2000					Use is subject to acceptance by SP	
336	Flange DI off-take clamps	327	Hawle/Hygrade Water	Haku	DN110 to DN355	For use on PE pipe only, installed and commissioned in accordance with manufacturers recommendations					
337		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	AVK	Series 57 (light type only for DN100 & 150) Series 570 Series 36/80 Series 01/71 Series 55	Up to DN400 Up to DN400 Up to DN300 Up to DN300 DN450 to 600	Anchor legs approved PE Pipe ended approved Gripper ends approved					
338		260	Hawle / Hygrade Water	E2 FL Ends E2 System 2000 A Valve FL & SOC Ends	DN50 - 200 DN50 - 300	WSAA Appraisal 11/23 WSAA Appraisal 06/07				Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.	
339		4.1 - PN16 4.2 - All End configurations accepted 4.3 - Integral By-pass on DN450 and larger (Unitywater accepts either integral or constructed by-pass as per job specification) 4.4 - Gear Box on DN600 and larger (refer mechanical list) 4.5 - Clockwise for opening 4.6 - No requirement for spindle cap colour 4.7 - Extension Spindle to WSA PS - 262 4.8 - Spindle Cap 4.9 - SBR & EPDM	Viadux	Series 500 Auslite Auslite II Bayard Sureflow Auslite III	Up to DN600 DN80, 100 & 150 DN100 to DN300 DN50 - DN200 Up to DN 400	Anchor Legs approved With PE pipe tails approved					
340			Karon / Challenger	Karon	DN80 - DN600					Use is subject to acceptance by SP	
341			AVFI	BETTA	DN100 - DN375						
342			AAP Industries	Maxiflo/appFLO	DN80 to DN300	WSAA Appraisal 11/26 Issue 2					
343			Derwent Industries	Derwent	DN80 - DN600	WSAA Appraisal 1511					
344	Resilient Seated Gate Valves, thermal bonded polymeric coating.		DAEMCO		DN80 to DN300	WSAA Appraisal 1517 (10/05/16)					
345											
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	Gympie Regional Council (GRC)	Fraser Coast Regional Council (FCRC)	Bundaberg Regional Council (BRC)	North Burnett Regional Council	South Burnett Regional Council
346			Pentair / Viadux	Keystone							
347			Ebro	Ebro							
348			AVFI	AVFI							
349			Valveco	Valveco							
350			Iplex	AVK							
351			Challenger	Challenger							
352	Butterfly Valves	263	Hydroflow Distributors	Watts	DN50-600 for wafer/ lugged DN100-1000 double flanged	Body 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 stainless steel Grade 316. Shaft stainless steel Grade 316, 410, 420, 430 or 431. Seat EPDM. All fasteners stainless steel Grade 316. Operation Type: Lever or Gearbox. Gearbox ratio as per manufacturer's requirement, coating - high build two-pack Epoxy 275 µm (min.)				Use is subject to acceptance by SP	
353			Hydrants	Series 30/00 non-swab and 30/10 for swab							
354			Viadux	Sureflow							
355			Civil Pipe Supplies	BETTA normal & Swab							
356			AAP Industries	MAXIFLO/appFLO							
357			Derwent Industries	Derwent non-swab		Removable Top Cap & Internal Assembly. Thermal bonded polymeric coating. Purple body and lug for recycled water.					
358	Hydrants	267	Dobbie Dico							NOT ACCEPTED BY SP	
359		No WSA-PS	AVK							Mandatory for Hydrants on Trunk Water mains	
360		Aligned to WSA_PS 201 and 270 with Flanges to AS 4087 Figure B5	Viadux		DN80 - DN100					>DN300	
361	Hydrant and air valve isolator's valves	To comply with WSA PS-201S when published	Crevet			Thermal bonded polymeric coating Min. PN16				Isolator Valve for Hydrant - Min. DN100 Clockwise Opening Direction	
362			Viadux								
363			NIBF / Iplex								
364		No WSA-PS	Tellam								
365	Valve box & cover C.I.	Refer details on SEQ-WAT-1305-1 and SEQ-WAT-1306-1	Gatic / Iplex			Bitumen coated to AS 3750.4					
366			Viadux								
367			NIBF / Iplex								
368		No WSA-PS	Tellam								
369	Hydrant box & cover C.I.	Refer details on SEQ-WAT-1305-1 and SEQ-WAT-1306-1	Gatic/Iplex			Bitumen coated to AS 3750.4					
370			Viadux								
371	Valve & hydrant boxes (recycled plastics) & DI Covers	No WSA-PS Refer details on SEQ-WAT-1305-1	Crevet			Non-trafficable location only. H - Hydrants V - Valves AV - Air valve				Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2209-1	
372			Vinidex								
373	Plastic surround to valve/hydrant boxes	No WSA-PS For sizes refer details on SEQ-WAT-1306-1	Replas Australia			Non-trafficable location only.				Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2209-1	
374			Viadux								
375			NIBF / Iplex								
376			Forge Bros / Vinidex								
377	Valve extension spindles	262	Challenger			AS2638 Compliant				Use is subject to acceptance by SP	
378		204 - Flanges	Steel Mains								
379	Flanges MS	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	NIBF / Iplex			Class 16 Thermal bonded polymeric coating					



380	Flange gaskets and 'O' rings	312 4.1 - PN16 min or as per Design 4.2 - Gasket as Standard with O-ring for required 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										
381	Bolts	No WSA-PS Refer details on SEQ-WAT-1313-1				316 Stainless steel bolts							
382	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 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										
383			Philmac / Philmac & Vinidex										
384			Plasson										
385			Talbot										
386			Alprene										
387			Iplex										
388			Viadux										
389	PE Fittings (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			Coupler up to DN710							
390			Georg Fischer	ELGEF Plus Draw - Lock									
391			Friatec / Vinidex	Friaten			DN250-560 with branch DN320						
392			Agru				Coupler up to DN630						
393			Fusion Group / FusionPlast	Fusamatic			Up to DN630						
394	NUPIGECO	Elofit			DN20 to DN710								
						Comply with AS4129, PN16, Electrofusion fittings to be long type. Stub flanges only to be used for sizes DN450 and larger						Spigot ended fittings, flanged tees and flanged saddles are not accepted by SP	
1	<b>Product</b>	<b>WSAA Product Specification No. with Service Provider Specific Requirements</b>	<b>Manufacturer / Supplier</b>	<b>Trade Name</b>	<b>Size Range</b>	<b>Specified Requirements / Minimum Class</b>	<b>Gympie Regional Council (GRC)</b>	<b>Fraser Coast Regional Council (FCRC)</b>	<b>Bundaberg Regional Council (BRC)</b>	<b>North Burnett Regional Council</b>	<b>South Burnett Regional Council</b>		
395	Full face PE flanges (for reticulation sizes)	208 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	Plasson		DN80 / DN100	DN90 riser with slotted flanges suit both DN80 & DN100 flanged hydrants to WSAA 98/50							
396			Iplex			Up to DN355	Full face full bore connections						Use of stub flanges is subject to acceptance by SP
397			Friatec / Vinidex	Friaten			Up to DN180	Metal insert in the flange, backing rings not required					Use is subject to acceptance by SP
398	Full face PE flanges (for reticulation sizes)	216 4.1 - PN16 minimum 4.2 - Butt Weld pipe joint with Full Face Flange Adaptor with SS316 backing ring and AS 4087 "Figure" compatibility for mating flange	Rodney / Vinidex	Maxi Stub	Up to DN355	Full face full bore connections						Use of stub flanges is subject to acceptance by SP	
399			Hawle / Hygrade Water	System 2000 Synoflex	Up to DN630								Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.
400	DI Restraint fittings (for PE) - couplings, flange adaptors, tees, bends, end caps	245 Joining to PE Pipe only 2(a) - EN 12201, EN 13244 or EN 14525 acceptable Certification 2(b) - Plastic fittings not permitted 4.1 - PN16 4.2 - SBR & EPDM seal options with AS 4087 "Figure" compatibility for mating flange with WSA PS 312 gasket	+GF+	Multi/Joint 3000	Up to DN355								
401			AVK	Supa Plus	Up to DN315								
402			Viking Johnson / Philmac	AquaFast AquaGrip	Up to DN630	Restraint type, Flange adaptor up to DN355 shall be full bore connection							
403	PE scour Tees	216 4.1 - PN16 minimum 4.2 - Electrofusion/Butt Weld pipe joint with Full Face Flange Adaptor with SS316 backing ring and AS 4087 "Figure" compatibility for mating flange on outlet	Vinidex / Rodney										
404			Kingston Bridge / Iplex				Comply with AS4129						
405	Air valves	265 Appendix B AS 4956 Size - DN20 and Larger Class - PN16 Type of Port - Full and Reduced Port Type of Valve - As per Design Hydraulic Data - As per Design Materials - DN20 and DN25 permitted with Plastic body. All other sizes End Connections - BSP Threaded or AS 4087 Flange with "Figure" compatibility to mating Flange	ARI Flow control										
406			Bermad										
407			Vent-O-Mat										
408			AVFI	DAV-MH									
409			ISCO	Vent Master PX			DN50-DN200	PN16, Double Orifice as required, Thermal bonded polymeric coating					
410	Non-return valves - Swing check with counterweight lever arm	264 Refer Appendix B of AS4794 a) Class - PN16 min - Size by Design b) Medium - Water c) Installation - Horizontal d) Spindle - Extended e) Lever and Counterweight minimum with switches and indicators by Design	HMA Valveco	Valmatic Swing/flex	DN50 - DN600								
411			Dobbie Dico	Dobbie Dico	DN80-DN900								
412			AVK	AVK Swing Check Valve 41/25	DN50								
413			AVK	AVK Swing Check Valve 41/8X	DN80-DN300								
414			Challenger Valves	Challenger - RSSC	DN80-DN375								
415	AVFI Pty Ltd	AVFI - RSFC	DN50-DN300	Min. PN16, Thermal bonded polymeric coating									
416	Non-return valves - free acting (without counterweight) Swing Check	264 Refer Appendix B of AS4794 a) Class - PN16 min - Size by Design b) Medium - Water c) Installation - Horizontal d) Spindle - Extended j) Flanged to AS 4087 Figure B5	HMA Valveco	Valmatic Swing/flex	DN50 - DN600								
417			Dobbie Dico	Dobbie Dico	DN80-DN900								
418			AVK	AVK Swing Check Valve 41/25	DN50								
419			AVK	AVK Swing Check Valve 41/8X	DN80-DN300								
420			Challenger Valves	Challenger - RSSC	DN80-DN375								
421	AVFI Pty Ltd	AVFI - RSFC	DN50-DN300	Min. PN16, Thermal bonded polymeric coating									
422	Pressure reducing valves	See Appendix B of AS5081:2008	Bermad Water Technologies	Bermad	DN40 - DN900								
423			Singer / HMA Valveco	Singer									
424			Plasson Australia Pty Ltd	Plasson C-Valve									
425			Dorot Australia Pty Ltd	Dorot 300 Series									
426			Cla-Val Pacific / Challenger	Cla-Val	DN25-DN1200	Min PN16, Thermal bonded polymeric coating						Use is subject to acceptance by SP (In PRV installations where upstream pressures can be within 50 kPa of the required downstream pressure, Plasson C valves are preferred).	
427	Pressure sustaining valves and altitude valves	See Appendix B of AS5081:2008	Bermad Water Technologies	Bermad	DN 40 - DN900								
428			Singer / HMA Valveco	Singer									
429			Dorot Australia Pty Ltd	Dorot 300 Series	DN25-DN1200 (Sustaining)								
430			Cla-Val Pacific / Challenger	Cla-Val	DN-80-DN1200 (Altitude)	Min PN16, Thermal bonded polymeric coating							
431	PE Flex Restraint Fitting (used as puddle flange)		+GF+		Up to DN1600	E-F type follow manufacturer's requirements.							
432			Plasson			Fits DN160 to DN1600 PE Pipe	PE100/ PE4710 resin						
433	Dismantling joints for Flange Pipe and Fittings	201 4.1 - FIFI for DJ & FVSp for UniFlange 4.2 - Thrust type and non-thrust type minimum PN16 4.3 - Thrust Restraint by Fitting 4.4 - SBR & EPDM	Viadux										
434			Viking Johnson										
435			Valveco	Uni-Flange Adaptor			DN50-DN500						
436			Hygrade Water	Pipemate			DN80-DN900						
437			AVFI	AFD10 Series			DN80-DN1200	Thrust restraint type and non-thrust type are Flanged to AS4087 PN16. SS316 bolts, nuts and washers. Larger sizes of UniFlange shall be assessed for available Fitting PN vs Pipeline Test Head.					
438	AVFI	AFD20 Series			DN80-DN1200								
439	No WSA PS	4.1 - Flange to AS4087 Figure 5 4.2 - PN16	ABB	ABB								ABB Water master	
440			Siemens	Siemens									Use is subject to acceptance by SP
441			E & H	E & H									Use is subject to acceptance by SP

Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	Gympie Regional Council (GRC)	Fraser Coast Regional Council (FCRC)	Bundaberg Regional Council (BRC)	North Burnett Regional Council	South Burnett Regional Council
<b>Category: WATER SERVICES</b>										
444	310 4.1 - DN100 to DN300 4.2 - Without Electrical Isolation 4.3 - Female Rp thread to AS ISO 7.1	Viadux			Gunmetal - Positive stops					
445		Gatic / Milne								
446		RMC								
447	Tapping bands for DI & PVC pipes	4N Products & Stockbrands	4N	DN100, 150, 200	Positive stops, coloured blue WSAA Appraisal PA10/18					
448	327 4.1 - Pipe DN63 and larger ( see WSA PS 207 above ) - Off- take ID 20 mm minimum 4.2 - PN16 4.3 - Female Rp thread to AS ISO 7.1 4.4 - Without electrical isolation	Gatic / Milne		DN63-DN315	Gunmetal - Positive stops Only for where E-F saddles are not practicable			NOT ACCEPTED BY SP		
449		4N Products & Stockbrands	4N	DN63, 90, 125 & 180	Positive stops, coloured black Only for where E-F saddles are not practicable WSAA Appraisal PA10/19					
450		Hawle / Hygrade Water	Haku	DN63 - DN315	Ductile iron lower half					
451	Tapping bands for PE - mechanical	Hawle / Hygrade Water	Haku	DN250 - DN630	Stainless steel strap lower half					
452	329 329.2.(a) - EN Standards accepted 4.1 - Pipe DN63 and larger ( see WSA PS 207 above ) - Off- take ID 20 mm minimum 4.2 - PN16 4.3 - Combined Saddle and Outlet off-take with integral cutter/shut off 4.4 - Without electrical isolation	Plasson								
453		George Fischer								
454		Friatec / Vinidex	Friaten	DN63, 90, 125 & 180	Up to DN355					
455	Tapping saddle for PE - electrofusion	Fusion Group / FusionPlast	Fusamatic	Up to DN355	Comply with AS4129 PN16			Spigot ended fittings, flanged tees and flanged saddles are not accepted by SP		
456	No WSA-PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS 3688. 2 - PN16 with ability for under pressure tapping 3 - Male R thread to AS ISO 7.1 4 - Outlet fitting PE to WSA PS 207 or Copper to WSA PS 214 5 - DN50 to include 90 degree bend with union connection to AS3688 at outlet	Gatic / Milne								
457		Elster								
458		RMC				Dezincification resistant material and comply with AS/NZS 3688				
459	274 4.1 - PN16 minimum 4.2 - Plastic not permitted, Body and Handle to be DR copper alloy 4.3 - By accepted product 4.4 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 or PE Compression 4.5 - 90 Degree closure with 38 mm handle for maintap and 50 mm handle for meter. Meter ball valve with Locking open/close function	Gatic / Milne								
460		Elster								
461		RMC								
462	Ball valves - Water Service	Zetco TOF						Ball valves must be capable of being locked by the customer with their own padlock.		
463		Kimberio / Strongcast	Strongcast							
464		Austworld	LOGI VALVE			Dezincification resistant material and comply with AS/NZS 3688				
465	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								
466		Elster								
467		RMC				25 mm Dezincification resistant material and comply with AS/NZS 3688				
468	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	Gatic / Milne		DN20 and DN25						
469		All Valve Industries								
470		RMC							NOT ACCEPTED BY SP	
471	Slip Coupling	Strongcast								
472		Austworld				Dezincification resistant material and comply with AS/NZS 3688 Shall have a locking nut to prevent moving apart or kinking between the moving parts				
473		Plasson			DN20					
474	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	+GF+								
475		Friatec / Vinidex				PE electro-fusion to BSP connections Copper male fittings connecting to poly female fittings is not accepted			Push fitting not accepted by SP	
476		George Fischer								
477	208 or 247 DN25 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 4.4 - Flange not used 4.5 - SBR & EPDM	Philmac / Philmac & Vinidex								
478		Plasson								
479		Elster								
480	PE mechanical compression fittings for Small Diameter Water Service pipes	Zetco TOF								
481		Talbot								
482		Alprene								
483	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	Iplex								
484		Viadux								
485		NUPIGECO	Elopress	DN25 to DN63		PE to PE or PE to BSP PN16 Push fit type is not accepted				Use is subject to acceptance by SP
486	No WSA-PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer 4 - Std Tail Nut with gasket 5 - Colour and Check Valve requirements as per SEQ-SP requirements	Austworld		DN25 & DN 32						
487		Elster	V100 (PSM-T) (WM202PD)							
488		Elster	V200							
489	Meters - 20 mm (direct and sub-metering applications)	Iron	TD8							
490		RMC	WM273MRP multijet							
491		RMC	WM281MRP multijet			Purple body for non-drinking water Accuracy Class 2 Shall comply with relevant SEQ SP water meter/sub- meter specification and/or policy				
492	Meters - 25 mm (direct and sub-metering applications)	GVT	TPWM							
493		Elster	V100 (PSM-T) (WM252PD)							
494		Elster	V200							
495	No WSA-PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer 4 - Std Tail Nut with gasket 5 - Colour and Check Valve requirements as per SEQ-SP requirements	Iron	TD8							
496		RMC	WM271MRP multijet							
497		Elster	V100 (PSM-T)							
498	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	Elster	V200							
499		Iron	TD8							



557		318	Boddingtons							
558		4.1 - Tape/Product Colour - Drinking Water = Blue Non-Drinking Water = Purple. Sewerage = Cream	Tapex							
559		4.2 - Message = "Caution ASSET DESCRIPTION Buried Below" or "Danger Buried ASSET DESCRIPTION Below"	LWG Zum							
560	Detectable marker tape	4.3 - SS 316 tracer wire 4.4 - See 4.1 above	Rain Harvesting	421						
561	Tracer wire	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 and	Tapex	Copperhead	500, 1000 and 2500 (feet)	Approved are SoloShot EHS and SoloShot Xtreme For HDD and Pipe bursting etc. Components of test station, connector and grounding anode are accepted				
562		320	Viadux							
563	Loose PE sleeving to DI pipe		Crevet	BLUEBOSS blue		Mandatory sleeving to all DI pipe Colours are Blue for Drinking Water and Purple for Non Drinking Water to POP203				
564		209	Vindex	Hydro S1						
565		4.1 - PN12 4.2 - Water Service Conduit 4.3 - Series 1 SCJ	Iplex							UW requires uPVC PN9 series 1 with solvent weld joint- Refer drawing SEQ-WAT-1108-1.
566	PVC - M conduits	4.4 - White for Water Conduit 4.5 - SCL look	Viadux			PN12 Series 1				
567	Embedment material - crushed rock	351								
568	Embedment material - recycled concrete	4.1 - Single sized. 4.2 - Nominal 5 or 7 mm	Queensland Recycling							NOT ACCEPTED BY SP
569	Bedding sand	366 4.1 - Single sized 10 mm nominal 4.2 - Moisture Content by design AS/NZS 2566.2 Table G3 for sand.								
570	Concrete	357 4.1 - N20 for Thrust Blocks and Unreinforced embedment. N25 for reinforced embedment 4.2 - Slumps as required for placement				Normal class				
571	Security fencing					AS1725.1 Chain Link Fabric Fencing-powder coated black				In accordance with Unitywater's specification Pr9903 - Specification for Building and Structural Works, Section 5.15 Security Fencing.
572	Casing Spacers	324 4.1 - Carrier pipes OD from 100mm to 1668mm 4.2 - Min space between carrier pipes and encasing pipes 50mm	kwik-ZIP	kwik-ZIP	HDX Series with Runner height of 38, 65, 90 and 125 mm	For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes				
573	Plastic marker post	1- Comply with Main Roads specification MRS11.14	Park International		1350 mm Long x 100 mm Wide x 4 mm Thick	As per SEQ-WAT-1300-2				
574	Kerb Markers	No WSA - PS	All products meeting the specified requirements are accepted		Brass at DN40 (cast-in) or SS at DN38 (cast-in or Pin set) with 22 high lettering	As per SEQ-WAT-1300-1				Only Brass markers accepted
575	Camlock					S/Steel 316				Maximum DN100
576	<b>Category: EMERGENCY STORAGE CHAMBERS</b>									
577			Envirotank Pty Ltd	Envirotank - Water/Wastewater Tank	From 4.8 m x 1.2 m dia. (5kl) to 16.4 m x 3.0 m dia. (110kl)	Fibreglass construction As per SEQ-SPS-1402-1				Use Accepted - 30 Year Warranty
578			Rocla		Conc. Box units (2.4 m modules)	Reinforced Concrete - Sacrificial layer or Plastined As per SEQ-SPS-1402-1				
579			Humes	Concrete Detention System	Conc. Pipe units (2.44 m modules)					UW accepts only PE lined Pipe
580			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				NOT ACCEPTED BY SP
581			Chemstore Group	Hydrosave	From 1.2 m to 3.5 m dia and 2.5 m to 20 m length	Fibreglass construction As per SEQ-SPS-1402-1				Use Accepted with condition of 30 Year Warranty & Providing access opening of larger size about 1200 mm opening
582			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
583			Tank Solutions	Mullaly	1470mm to 3275mm in diameter 3.3m to 15m in length	Fibreglass construction As per SEQ-SPS-1402-1				Use is subject to acceptance by SP
584	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.	Polynex	Polynex	From 600mm to 3000mm in diameter	Double walled HDPE As per SEQ-SPS-1402-1				Use Accepted - Minimum 20 year warranty