ODE D	E	F	August 2014	н	· · · ·	ACCEPTED CIVIL P	
Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	ουυ	Unitywater
re manufactured by a N	Manufacturer whose name, ode Clause 3.1.1; Sewerag to the service provider.	t Specific Requirements ^a . The SEQ n , and the products' trade name, appea pe Code Clause 10.6; Pressure Sewe	ar on the list.				
DWV PIPE DWV SEWER D-FLO Micron Pipelines Pipemakers	DN 100 150 225 300 375 DN 100 - DN 300	Plain wall only accepted	DN100 at SN6 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum	DN100 at SN6 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum Use of Pipemakers product is subject to acceptance by SP	DN100 at SN6 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum Use of Pipemakers product is subject to acceptance by SP	Use is subject to acceptance by SP	DN100 at SN10, DN150 and larger at SN8 and Fittings at SN8 minimum
	DN 150 225 300		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Mandatory for sewers deeper than 3 metres and for sewers with minimum cover All details to be confirmed with SP
Ducpur/ Ecopur	DN 80 - 700	Polyurethane internal protection		Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
Sintapipe		Internal lining would be required, either Epoxy or Sintaline		Use is subject to acceptance by SP	Use is subject to acceptance by SP	As per WSA PS-203	
SewerPRO SewerMAX	DN 150 - 900 DN 225 - 600					NOT ACCEPTED BY SP	
POLIplex Sewertech Hi-Vis SewerFlex	DN 110 160 250 315 400 500 630 800 1000 1200		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	
Lightfit			NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
			NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
Supersleeve Keramo Denlok	DN 100-1200					Use is subject to acceptance by SP May only be used as jacking pipes	Use is subject to acceptance by SP
						Use is subject to acceptance by SP	NOT ACCEPTED BY SP
Flex-Seal	Up to DN600						
Gibault Ezigib & Varigib Gibault & Universal Gibault & Universal MaxiFit, QuickFit DEKS FLEXI-GIB	DN 80 to 600					Use of DEKS FLEXI-GIB is subject to acceptance by SP	
						Use is subject to acceptance by SP	Use is subject to acceptance by SP

SEQ WATER SUPP	LY AND SEWERAGE DESIGN AND	CONSTRUCTION				August 2014	<u> </u>		ACCEPTED CIVIL I	PRODUCTS AND MATERIA
A	B WSAA Product Specification No.	с	D	E	F Specified Requirements /	G	Н		J	к
Product	with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
Manufacturer/Supplier Product Size Range Size ranges need 1 Blank Cells In the five columns 'Use is subject to acceptance 'Flange' All flanges used for pro-	WSAA Product Specifications are available from www.w ts may be sourced from alternative Suppliers than those to be read in conjunction with the relevant clauses of the s under the service provider's names cells that are blank i by SP' Contact the service provider to determine if the essure systems shall be PN16 or PN35 complying with A	listed provided that the products SEQ versions of the WSAA Coo ndicate that the product listed or use of this product is acceptable S4087.	are manufactured by a les (e.g. Water Supply C in that row are acceptable e in the proposed circum	Manufacturer whose name Code Clause 3.1.1; Sewera e to the service provider.	e, and the products' trade name, appe	ar on the list.				
Category: SEWE	RAGE PIPES AND FITTINGS	NON PRESSUR	E	1	1	1	1	I	Ι	
PVC-U pipe and fittings - DWV system	230 4.1 - Plain Wall 4.2 - Elastomeric Seal 4.3 - Stiffness as per 230.2.(c) or as required by SP 4.3 - RRJ @ SBR & EPDM	Iplex Vinidex Pentair Promains Pipemakers	DWV PIPE DWV SEWER D-FLO Micron Pipelines Pipemakers	DN 100 150 225 300 375 DN 100 - DN 300	Plain wall only accepted	DN100 at SN6 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum	DN100 at SN6 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum Use of Pipemakers product is subject to acceptance by SP	DN100 at SN6 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum Use of Pipemakers product is subject to acceptance by SP	Use is subject to acceptance by SP	DN100 at SN10, DN150 and larger at SN and Fittings at SN8 minimum
PVC-U Pressure pipe Sewer using Std DWV Junctions	211 4.1 - PN12 4.2 - Deep Sewers or Minimum Cover 4.3 - Standard Packaging & Delivery 4.4 - Series 1 4.5 - RRJ @ SBR & EPDM	lplex Vinidex Pentair		DN 150 225 300		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Mandatory for sewers deeper than 3 metrr and for sewers with minimum cover All details to be confirmed with SP
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 and EPDM	Von Roll (Promains)	Ducpur/ Ecopur	DN 80 - 700	Polyurethane internal protection		Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
Steel pipe	203 4.1 – By design and PN16 min 4.2 – SEQ Code nominal DN's 4.3 – Seal coat not required for sewage 4.4 – Extra protection by design 4.5 – Joints by design to SEQ Code Standards	Pentair	Sintapipe		Internal lining would be required, either Epoxy or Sintaline		Use is subject to acceptance by SP	Use is subject to acceptance by SP	As per WSA PS-203	
Polypropylene (PP) pipe	240 4.1 - Type B - ID Series 4.2 - SN10,000 4.3 - RRJ @ SBR & EPDM	Vinidex Iplex	SewerPRO SewerMAX	DN 150 - 900 DN 225 - 600					NOT ACCEPTED BY SP	
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 POP203 4.5 - PE100 only	lplex Vinidex PPI Pentair Poly Pipe	POLIplex Sewertech Hi-Vis SewerFlex	DN 110 160 250 315 400 500 630 800 1000 1200		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	
PE fittings	208 4.1 - PN10 preferred 4.2 - Electrofusion - long socket type 4.3 - Couplings, Saddles, Adaptors, Elbows, Fabricated Sediment Trap and Sweep Junctions 4.4 - Bolting Flanges not required. 4.5 - Elastomeric Seals not permitted And Electrofusion fitting Standards AS4129, EN1519- 1, EN12201, EN13244-4	George Fischer Philmac Plasson Iplex Vinidex	Lightfit			NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
PE MH connectors	208 Refer above and Hydrophilic seals both sides of puddle flange	Vinidex Iplex				NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
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	DN 100-1200					Use is subject to acceptance by SP May only be used as jacking pipes	Use is subject to acceptance by SP
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	Bundaberg Metal Ind. NIBF Pentair							Use is subject to acceptance by SP	NOT ACCEPTED BY SP
Metal-banded flexible coupling	235 4.1 - Need for adaptor bushes where difference between OD of pipe and ID of coupling greater than 16mm 4.2 - Metal band and bolts shall be min SS316	Flex-Seal	Flex-Seal	Up to DN600						
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	Pentair Crevet AVK Viking Johnson Derwent DEKS	Gibault Ezigib & Varigib Gibault & Universal Gibault & Universal MaxiFit, QuickFit DEKS FLEXI-GIB	DN 80 to 600					Use of DEKS FLEXI-GIB is subject to acceptance by SP	
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 - 2.0mm PE sheet Factory cast-in liner with Invert overlapped but not welded 4.6 - No additional cover 4.7 - SBR & EPDM	Rocla Humes							Use is subject to acceptance by SP	Use is subject to acceptance by SP

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A	В	С	D	E	F	G	Н	1	J	К
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
Polycrete pipe	No WSA-PS 4.1 - Class to suit design 4.2 - Bends not permitted 4.3 - Compliance with ASTM D 6783, DIN 54815-1 and DIN 54815-2 4.4 - SBR and EPDM Sewer Pipe and Jacking Pipe approved	lplex Global Pipe	Meyer pipe Al Watani	DN 200 to 2600					Use is subject to acceptance by SP	Use is subject to acceptance by SP Coupling Grade 316 Stainless Steel (min.)
8	205S 4.1 - PN1 4.2 - SN10,000 minimum 4.3 - Bends, T-piece, Y-piece, Saddles, Reducers,	lplex Global Pipe Promains	Flowtite HOBAS Superlit	DN 300 - 2400 DN 300 - DN 3000	Sewer Pipe	Use is subject to acceptance by SP	Use is subject to acceptance by SP Flowtite - open cut only			
GRP pipe and Fittings	 4.5 - Dents, Tplece, Falley, Saddles, Reddels, Flanges and MH Couplings 4.4 - Soc-Sp RRJ 4.5 - Standard Glass 4.6 - SBR & EPDM 	Global Pipe Promains	Hobas Superlit	DN up to 3000 DN 400 - DN 1400	Jacking pipes	Use is subject to acceptance by SP	Use is subject to acceptance by SP Hobas - Coupling Grade 316 Stainless Steel (min.) for Pipe Jacking			
Knife gate valve	266 4.1 - PN16 4.2 - Wafer or Lugged 4.3 - Clockwise closing, rising spindle	Keystone Challenger		Up to DN600	Stainless Steel 316			Use is subject to acceptance by SP		Unitywater accepts PN10 valves for sewage pump station inlet isolation valves
2										

SEQ WATER SUPP	LY AND SEWERAGE DESIGN ANI					August 2014				PRODUCTS AND MATERIA
Product	B WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	D Trade Name	Size Range	F Specified Requirements / Minimum Class	G City of Gold Coast	H Logan City Council	Redland City Council	ουυ ουυ	K Unitywater
Category: SEW	ERAGE PIPES AND FITTINGS	- PRESSURE	•	•	•					
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	lplex Vinidex Pentair Promains Pipemakers	BLUERHINO Hydro TUF-FLO Micron Pipelines Pipemakers Enviromain	DN 100 150 200 225 250 300 & 375 DN 100 - DN 300			Use is subject to acceptance by SP	Use of Pipemakers product is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP
PVC-O pipe	210 4.1 - PN16 4.2 - MRS400 or MRS450 4.3 - Sewer Rising main 4.4 - Series 2 only, Cream refer POP203 4.5 - SBR & EPDM	lplex Vinidex Promains	ApolloBLUE Supermain Micron Pipelines	DN 100 150 200 225 250 300 & 375 DN 100 - DN 375				Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP
<u>}</u>		Pentair Pentair	Tytonxcel Tytonxtreme	DN 250 - 750 (not 225)	PN20 PN20 for corrosive flows				NOT ACCEPTED BY SP NOT ACCEPTED BY SP	PN20 NOT ACCEPTED BY SP PN20 NOT ACCEPTED BY SP
		Pentair Crevet	Tytonxcel		PN35				Use is subject to acceptance by SP	Restraint joint seals not suitable for: PN20 pipe;
DI pipe	200 and WSAA TN6 4.1 - All Pressure Classes - see Column G 4.2 - Seal Coat not required for Sewerage 4.3 - Cement Mortar Linings - see Column G	Pentair	Tytonxtreme	DN 100 150 250 300	PN35 for corrosive flows	Cement Mortar lining of any type is not permitted within 5.0 meters of the HGL at nume stor. Alternative Ining	Cement Mortar lining of any type is not permitted within 5.0 meters of the HGL at pump stop. Alternative non-corrosive lining	Cement Mortar lining of any type is not permitted within 5.0 meters of the HGL at pump stop. Alternative non-corrosive lining	Use is subject to acceptance by SP	Aboveground applications; Combining joint restraint and thrust blocks; Epoxy or fusion coated spigots (incl Tytonextreme pipe); Other manufacturers sockets or other pipe materials.
	 4.4 - All fittings to be Fusion Bonded Polymeric Coated 4.5 - Restraint Joint Seals by approval 4.6 - SBR and EPDM 	Pentair	Tytonxcel	375 450 500 600 & 750 (not 225)	Flange Class	or pipe and fittings required.	or pipe and fittings required.	or pipe and fittings required.	Use is subject to acceptance 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. At such locations, non-corrosive pipes or motel pipes with non corresive linear chal
		Pentair	Tytonxtreme		Flange Class for corrosive flows				Use is subject to acceptance by SP	metal pipes with non-corrosive linings shal be used. All linings of pipes and fittings at such locations shall be non-corrosive.
DI fittings	201 4.1 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.2 - Standard and PN16 fittings 4.3 - Restraint Joint Seals by approval 4.4 - SBR & EPDM	Pentair Crevet Vinidex Derwent Gillies DN100 & DN150	Superlink	up to DN 750 (not 225)	Thermal bonded polymeric coating is the standard material in WSA PS 201 and WSA PS212					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
Bolts	No WSA-PS Refer Standard Drawing SEQ-WAT-1313-1 etc.				316 Stainless steel bolts	Refer Standard Drawing	Refer Standard Drawing	Refer Standard Drawing	SS316	Grade 316 Stainless Steel (min.)
Flange 316 SS off-take clamps	313 4.1 - Type F and R 4.2 - DN size as required 4.3 - Offtake size as required	Crevet Pentair	Wang	Offtake DN 100 to 300	Min. PN16, Approved on DI and CI host pipes only, to Pipe manufacturers specifications	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
Metal-banded flexible couplings	235 4.1 - Need for adaptor bushes where difference between OD of pipe and ID of coupling greater than 16mm 4.2 - Metal band and bolts shall be min SS316	Flex-Seal	Flex-Seal	Up to DN600		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP
DI mechanical couplings - Nor 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	Pentair Crevet AVK Viking Johnson Derwent DEKS	Gibault Ezigib & Varigib Gibault & Universal Gibault & Universal MaxiFit, QuickFit DEKS FLEXI-GIB	DN 80 to 600					Use of DEKS FLEXI-GIB is subject to acceptance by SP	
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	1- Hawle (Hygrade) 2- AVK 3- Viking Johnson 4- +GF+	1- System 2000 for PE 1- Synoflex PN16 Restraint for AC, PVC, DICL, SCL, PE 2- Supa Plus Restraint for PE 3- Aquafast and Aquagrip Restraint for PE 4- Mult/ joint 3000 Plus restraint type for AC, PVC, DI, SCL, PE	DN 50-300					The use of Synoflex, AquaFast or AquaGri is subject to acceptance by SP	P
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) Vario WSA PA 12/09	Vario	DN50 - DN200					Use is subject to acceptance by SP	
Dismantling joints for Flange Pipe and Fittings	201 4.1 - FI-FI for DJ & FI/Sp for UniFlange 4.2 - Thrust type and non-thrust type minimum PN16 4.3 - Thrust Restraint by Fitting 4.4 - SBR & EPDM	Pentair Viking Johnson			Thrust 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.					

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A	В	C	D	E	F	G	Н	1	J	К
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
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	lplex Vinidex PPI Pentair Poly Pipe	POLIplex Sewertech Hi-Vis SewerFlex	DN 40 50 63 90 125 180 250 315 355 450 630 800		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	PE is preferred pipe material	PE is preferred pipe material
PE pipe installed by directional drilling	207 Refer above. Install with SS316 tracer wire	Iplex Vinidex PPI		DN 40 50 63 90 125 250 315 355 450 630 800	PE100 Min. SDR 9 unless specified. "Pipe wall thickness to be designed for installation forces"	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
PE fittings	208 4.1 - PN16 4.2 - Electrofusion and Mechanical 4.3 - Bends, Tees, Flange stubs 4.4 - Flanges & SS backing rings to AS/NZS 4087 Fig B5 or B7 4.5 - SBR & EPDM	George Fischer Friatec/ Philmac Plasson			Electrofusion couplings to be long socket type Stub flanges only to be used for sizes larger than reticulation sizes	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
43	208 4.1 - PN16 4.2 - Electrofusion and Mechanical	Plasson / Vinidex		DN80/DN100	Slotted flanges & backing rings suit both DN80 and DN100 to WSAA 98/50	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use of stub flanges is subject to acceptance by SP
44	4.3 - Full Face Flanges &SS backing rings to AS/NZS	lplex		Up to DN355	Full bore connections	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
Full face PE flanges	4087 Fig B5 or B7 4.4 - SBR & EPDM	Friatec / Philmac	Frialen	Up to DN180	Metal insert in the flange, backing rings not required	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
46	216 4.1 - PN16 4.2 - PE Flange	Rodney / Vinidex	Maxi Stub	Up to DN355	Full bore connection	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
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 4.10 - Sintakote minimum	Pentair	Sintapipe	DN 324 - 813	RRJ unless otherwise approved	Use is subject to acceptance by SP DN610 minimum size	Use is subject to acceptance by SP DN610 minimum size	Use is subject to acceptance by SP DN610 minimum size	Use is subject to acceptance by SP	Use is subject to acceptance by SP
48	260	AVK	Series 55 & 57	Up to DN600	For PE pipes					
49	4.1 - PN16 4.2 - All End configurations accepted	Hawle	E 2		PE gripper Sluice Valves by Hawle					
50 Resilient seated gate valves,	4.3 - Integral By-pass on DN450 and larger	Pentair	Series 500		E2 System 2000 or AVK Supa Plus Coupling Series 01/70 or equal					
51 thermal bonded polymeric	4.4 - Gear Box on DN600 and larger 4.5 - Anti-Clockwise closing	Karon/Challenger	Karon	DN80 - DN600	Sluice Valves with PE stubs for electrofusion acceptable				Use is subject to acceptance by SP	
52 coating	4.6 - No requirement for spindle cap colour 4.7 - Extension Spindle to WSA PS - 262	AVFI			Some valves may do not need by-				Use is subject to acceptance by SP	
53	4.8 - Spindle Cap	Promains	BETTA	DN 100 - DN 375	pass (check with SEQ SPs)				Use is subject to acceptance by SP	Use is subject to acceptance by SP
54	4.9 - SBR & EPDM	AAP Industries	Maxiflo	DN80 to DN300	WSAA Appraisal 11/26 Issue 2			Use is subject to acceptance by SP	Use is subject to acceptance by SP	
Ball Valves	274 4.1 - PN16 4.2 - Body material: 316 stainless steel 4.3 - Clockwise closing	Pentair		Up to DN50	BSPT threaded connections					
GRP Pipe and Fittings	205S 4.1 - PN16 4.2 - SN10,000 minimum 4.3 - Standard DI Fittings 4.4 - Sp-Sp & RRJ Coupling 4.5 - Standard Glass 4.6 - SBR & EPDM	lplex Global Pipe Promains	Flowtite HOBAS Superlit	DN 300 - 2400 DN 300 - DN 3000	DI Fittings to WSA PS 201 for Tees and Bends			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP Coupling - Grade 316 Stainless Steel (min.)
57										
58										

5	SEQ WATER SUPP	LY AND SEWERAGE DESIGN AND	D CONSTRUCTION	CODE			August 2014			ACCEPTED CIVIL F	RODUCTS AND MATERIAL
	A	B	С	D	E	F	G	Н	1	J	К
1		WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
59	Category: SEWE	RAGE MISCELLANEOUS ITE	MS				·	- -	·	-	·
60	Maintenance structure covers, frames and risers	290 4.1 - DN600 4.2 - Round Solid Top (Conc Infill - QUU only) Watertight Type 'd' 4.3 - 600mm 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 4.11 - Standard Coating 4.12 - Bolt down for Surcharge and overland flow areas, 4 x M8 (min) SS316 Bolts	Gatic/Miine East Jordan (Havestock) Webforge Tellam Durham Hygrade			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	Concrete Infill Covers NOT ACCEPTED BY SP	Concrete Infill Covers NOT ACCEPTED BY SP		Concrete Infill Covers NOT ACCEPTED BY SP
61			Terra Firma			Class D	Non-Corrosive MH lids and frames are	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
62	Maintenance hole lightweight composite lids and frames		ACO SAKU			Class B	required for Discharge Manholes and all Manholes for sewers DN300 and larger	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
63	(non-corrosive)		Prime Composites	Smortetreem Ten Het		Class D and Class B Class B		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
64			Smartstream	Smartstream Top Hat		Class B Class C		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
65	Maintenance hole covers			MC1000	DN900	Fabricated S/Steel grade 316 ring				Use is subject to acceptance by SP	
66	Step irons	314 4.1 - Single Step 4.2 - Comlies 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 Amyroo C & C Plastics/Havestock Industrial Steps & Ladders	Miyama Amyroo Posistep Sure-Step		M053	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		NOT ACCEPTED BY SP
67		315	Miyama/Nextep	Miyama		Fibre reinforced plastics (yellow). Brackets & Fasteners to be SS316 Min. Clearances for Rung Type Ladders as per AS1657 Fixed Platforms, Walkways, Stairways and Ladders - Design and Installation	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		NOT ACCEPTED BY SP
68	Ladders	 4.1 - Type D - Fixed Ladder with two Stiles 4.2 - FRP, SS316, Galvanised Steel or Aluminium 4.3 - Reflectors optional 4.4 - 150mm from CL of rung to MH wall 4.5 - Colour as per material 	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.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		NOT ACCEPTED BY SP
69			Galvanised Steel			Refer to Standard Drawings	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP
70			Stainless Steel or Aluminium			Refer to Standard Drawings	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
70	Maintenance Shaft PVC	321 4.1 - Inlet and Outlet at DN150 to DN225 4.2 - Max depth 4.0 meters FSL to Top of Pipe 4.3 - Configurations as shown in Standard drawings 4.4 - Inlet and Outlet Sewer connection RRJ 4.5 - Cap as shown in Standard Drawings 4.6 - Connect to PCV-U DWV pipe	Aymroo SMS	Aymroo SMS # MS3 DN150 Only	DN225 PVC-U Riser Shaft					NOT ACCEPTED BY SP	
72	Maintenance Shafts PE	322 4.1.a - Inlet and Outlet at DN150 to DN225 for PVC RIGSS 4.1.b - Inlet and Outlet at DN160 to DN250 for PE Nusewer 4.2 - Max depth 5.0 meters FSL to Invert of Pipe 4.3 - Configurations as shown in Standard drawings 4.4.a - Inlet and Outlet PVC Sewer connection RRJ 4.4.b - Inlet and Outlet PE Sewer connection Electrofusion 4.5 - Cap as shown in Standard Drawings	Smartstream	Poo-Pit		RIGSS DN225 PVC riser shaft. Nusewer fully welded with DN250 PE risers and sewer stubs.	Approved for DN 150 to DN225 RIGSS only. Refer Standard Drawing SEQ-SEW-1314- Set for other approved PE MS and MH options	Approved for DN 150 to DN225 RIGSS only. Refer Standard Drawing SEQ-SEW-1314- Set for other approved PE MS and MH options	Approved for DN 150 to DN225 RIGSS only. Refer Standard Drawing SEQ-SEW-1314- Set for other approved PE MS and MH options		
	Maintenance Shaft	330 4.1 - DN600 4.2 - DN150 and DN225 4.3 - Ribbed Wall 4.4 - Rubber Ring Joints 4.5 - Conc surround no internal Lid 4.6 - DI MH cover and frame	lplex	EZIpit PA 09/01		Refer Standard Drawings	Approved for DN 150 to DN225 RIGSS only Base is single DN size	Approved for DN 150 to DN225 RIGSS only Base is single DN size	Approved for DN 150 to DN225 RIGSS only Base is single DN size	NOT ACCEPTED BY SP	
74		330 4.1 - DN600 4.2 - DN150 4.3 - Ribbed Wall 4.4 - Rubber Ring Joints 4.5 - Conc surround no internal Lid 4.6 - DI MH cover and frame	SMS	SMS PA 09/08 parts 0 to 5 Code : MS1 Code : MS2 Code : MS5		Refer Standard Drawings	Approved for DN 150 RIGSS only	Approved for DN 150 RIGSS only	Approved for DN 150 RIGSS only	NOT ACCEPTED BY SP	
75	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 - Standard 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 Rocla Everhard Tellam		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	DN600 Pre-cast pre-benched Channel base and Bowl base Maintenance shafts approved as shown in Standard Drawings	Use of MS is subject to acceptance by SP	Use of MS is subject to acceptance by SP	NOT ACCEPTED BY SP	Humes and Rocla pre-cast MHs accepted Everhard and Tellam MHs NOT ACCEPTED BY SP & Use of MS is subject to acceptance by SP

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SEQ WATER SUPP	LY AND SEWERAGE DESIGN AND	CONSTRUCTION				August 2014			ACCEPTED CIVIL P	RODUCTS AND MATERIA
A	B WSAA Product Specification No.	С	D	E	F	G	Н	1	J	K
Product	with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
Plastic Maintenance Holes	No WSA-PS Refer details of Type K1 on SEQ-WAT-1314-2	Smartstream		DN150 to DN300 sewers	Refer Standard drawings		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
Vent poles	325 Project Specific outcome Product Appraisal Report PA 0906 for RPC	1- RPC Technologies 2- Ingal EPS			Refer Standard Drawings Tapered, Galvanised, height as design preferred colour: heritage or mist green	Accepted option is RPC for a GRP pole @ designed height	Accepted option is RPC for a GRP pole @ designed height	Accepted option is RPC for a GRP pole @ designed height	1- RPC Use is subject to acceptance by SP 2- Ingal EPS -Accepted height 12.0m	1- RPC Use is subject to acceptance by Si 2- Ingal EPS-Use Accepted - Min Height 6.0m
Valve box and cover C.I. & D.I.	No WSA-PS Refer details on SEQ-WAT-1305-1 and SEQ-WAT- 1305-2	Pentair NIBF Gatic/Milne Tellam			Refer Water Code Standard Drawings for approved Valve Box and Cover					
Loose PE sleeving to DI pipe	320 Cream Colour to POP203	Pentair Crevet	BLUEBOSS Cream		Mandatory sleeving to all DI pipe	Gravity pipe Grey colour Pressure pipe Cream colour	Gravity pipe Grey colour Pressure pipe Cream colour	Gravity pipe Grey colour Pressure pipe Cream colour		
Embedment material - crushed rock	351 4.1 - Single sized 4.2 - Nominal 5 or 7mm	UIEVEL				r ressure pipe cream colour		i ressure pipe cream colour		
Embedment material - recycled concrete	366 4.1 - Single sized 10mm nominal 4.2 - Moisture Content by design	Queensland Recycling				NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		NOT ACCEPTED BY SP
Concrete-Normal Class	357 4.1 - As follows N20 Thrust Blocks N25 for reinforced embedment 4.2 - Slump as required for placement									
Concrete-Special Class	358 4.1 - S40 with Fly Ash/Type GP Portland Cement ratio of 0.25 to 0.30. 4.2 - Slump as required for placement 4.3 - Standard aggregate at 20mm					Cast in-situ MH's Refer details on Standard Drawings Concrete N32 minimum	Cast in-situ MH's Refer details on Standard Drawings Concrete N32 minimum	Cast in-situ MH's Refer details on Standard Drawings Concrete N32 minimum	Calcareous aggregates shall be used Admixtures shall be non-chloride type	
Gas release valves	275 Refer Appendix B of AS4883 Size of Valve - DN50 BSP, DN50 to DN200 Flanged. Class of valve - PN16 Type of Port - Full and Reduced port Type of Valve - As per design needs Hydraulic Data - By design to AS4883 Appendix B	ARI Flow control Bermad Vent-O-Mat Odour Technologies AVFI Vent Master	Vinloc-Smartvalve ARV-3-N Vent Master PX	DN 50 - 200	PN16, Anti Slam as required, Thermal bonded polymeric coating or 316 Stainless steel	DN225 and larger mains to only use Vinloc- Smartvalve	The use of Valmatic Valve is subject to accepted by SP	The use of Valmatic Valve is subject to acceptance by SP	See drawing SEQ-SPS-1605-1 for standard gas release valve arrangement (manual operation). When QUU requires an automatic gas release valve, Vent Master PX is accepted. Use of others is subject to acceptance.	
Non-return valves - Swing check with counterweight lever arm	264 Refer Appendix B of AS4794 a) Class - PN16 min - Size by Design b) Medium - Sewage c) Installation - Horizontal d) Spindle - Extended e) Lever and Counterweight minimum with switches and indicators by Design j) Flanged to AS 4087 Figure B5	HMA Valveco Dobbie Dico AVK AVK Challenger Valves AVFI Pty Ltd	Valmatic Swing-flex Dobbie Dico AVK Swing Check Valve 41/25 AVK Swing Check Valve 41/8X Challenger - RSSC AVFI - RSFC		MIN. PN16, Thermal bonded polymeric coating	CoGC only accepts Non-Return Valves with Lever arm and Counterweight - Lever to directly control swing check for open and close CHALLENGER, VALVECO and AVFI NOT ACCEPTED BY SP	Lever arm and Counterweight - Lever to directly control swing check for open and close. Use of valves that do not meet this	Use is subject to acceptance by SP	Use of Challenger and AVFI Valves are subject to acceptance by SP	UW prefers non-return valves without counterweight lever arms. Refer item (e) o the Product Specification column. One piece NBR Nylon Reinforced Steel dis
PVC-U Fabricated Fittings Fibreglass reinforced PVC Type 'D' junctions & fittings	230 4.1 - Plain Wall only 4.2 - Solvent Cernent 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 4.3 - RRJ @ SBR & EPDM	Vinidex Iplex Fabfit M.E. Christensen	Deep Sewer Junction & Reinforced Fittings	DN 100-300	DWV uPVC Moulded Fitting reinforced to SEQ Standards. Type D Junction from moulded fittings welded and fibreglass wrapped. 45 Deg Oblique Jn and Property Connection bends fibreglass wrapped. Fabricator has Certification to Section 6 d S/NZS 1260 and fittings fiberglass wrapped as shown on the drawings SEQ-SEW-1105-1. and SEQ-SEW-1105-1.				NOT ACCEPTED BY SP	
PVC-U SN8 long radius bends	236 1 - SN8 minimum 2.1 - DN150 only, 3.0 meter radius as a formed bend with standard socket and spigot RRJ ends. No ovality variation permitted. 2.2 - DN225 only, 3.0 meters radius preferred, spigot spigot ends as a formed bend or as a fabricated bend with 7.5 degree segments with minimum 100mm segment length on inside springline 2.3 - All long radius bends by Certified fabricators to AS/NZS 1260 Section 6 3 - SBR & EPDM	Vinidex Iplex Tri Underground Fabfit M.E. Christensen	Long radius 3000mm bends	DN150 as bent pipe & DN225 as bent or fabricated pipe	AS/NZS 1260 SN8 DN150 Bends available from 5Deg to 45Deg. DN225 and larger individually fabricated to 45Deg.		Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
Detectable marker tape	318 4.1 - Tape/ <i>Product</i> Colour - Drinking Water = Blue preferred (Green accepted via SP approval). Non-Drinking Water = Purple. Sewerage = Cream 4.2 - Message = " Caution <i>PRODUCT</i> Buried Below " 4.3 - SS 316 tracer wire 4.4 - See 4.1 above	Boddington Tapex								UW accepts only blue detectable marker tape for drinking water
Security fencing				AS1725.1 Chain Link Fabric Fencing-powder coated black		Fence details generally to CoGC Standard Drawing 05-05-004	Fence details generally to CoGC Standard Drawing 05-05-004	Fence details generally to CoGC Standard Drawing 05-05-004		
Hydrophilic Seal			Hydrotite							

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SEQ WATER SUP	PPLY AND SEWERAGE DESIGN AND	CONSTRUCTION	CODE			August 2014			ACCEPTED CIVIL P	RODUCTS AND MATERIAL
A	В	С	D	E	F	G	Н	I	J	K
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
Category: WA	TER SUPPLY PIPES - PRESSUR	RE								
PVC-M pipe	209 4.1 - PN16 4.2 - Drinking Water 4.3 - Series 2 only 4.4 - Blue 4.5 - SBR & EPDM	lplex Vinidex Pentair Promains Pipemakers	Reiber Blue Hydro Blue Tuf-Flo Micron Pipelines Pipemakers Enviromain	DN 100 to DN 300 DN 100 - DN 300	Series 2 PN16, Min SN 10 Reiber ring accepted		Use is subject to acceptance by SP	Use of Pipemakers product is subject to acceptance by SP	Use of Micron and Pipemakers pipes are subject to acceptance by SP	NOT ACCEPTED BY SP
PVC-O pipe	210 4.1 - PN16 4.2 - MRS400 or MRS450 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	lplex Vinidex Promains	Apollo Blue Supermain Micron Pipelines	DN 100 to DN 300 DN 100 - DN 375	Series 2 PN16, Min SN 10 MRS400 or MRS450			Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
94		Pentair	Tytonxcel	DN 225 - 750	PN 20	Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SP	Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SP	Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SF
95	200 and WSAA TN6	Pentair lplex/Crevet	Tytonexcel Irontite	Up to DN 750	PN 35	Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SP	Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SP	Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SP	Seal coating required for all sizes	Seal coat on pipes >= 450 Seal Coat requirement is dependant on water quality
DICL pipe	 4.1 - All Pressure Classes - see Column G 4.2 - Cement Mortar Lining 4.3 - All fittings to be Fusion Bonded Polymeric Coated 4.4 - Restraint Joint Seals by approval 4.5 - SBR and EPDM 	Pentair	Flange Class	Up to DN 750	Flange Class	Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SP	Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SP	Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SP		Seal coat on pipes >= 450 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.
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 - Sintapipe lining option 4.9 - SBR & EPDM 4.10 - Sintakote minimum	Pentair	Sintakote	OD 114, 168, 219, 257, 273, 324 to 2159.	Minimum thickness DN100 - 4.8mm, >DN100 - 5mm	Accepted for sizes >DN 600	Accepted for sizes >DN 600	Accepted for sizes >DN 600		Seal Coat requirement is dependant on water quality
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	lplex Vinidex PPI Cromford Poly Pipe Pentair	ldenti-pipe Advantage/TYCO10	OD 25 32 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	1 - Used as Water Service pipe at DN25 and DN32 recommend PE80B pipe (DN50 and DN63 by CoGC) 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	r	Use is subject to acceptance by SP	Preferred pipe material for single and dual water supply system Either solid or striped colours are permitted for single and/or dual water supply systems.	
Copper pipe 99	214 4.1 - Annealed for all pipe 4.2 - Natural pipe colour	Port Kembla Copper				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
00	205 4.1 - DN300 and larger 4.2 - PN16 minimum	lplex	Flowtite	DN 300 - 900						
GRP Pipe and Fittings	4.3 - SN 10,000 minimum 4.4 - Standard bend forms permitted 4.5 - Sp-Sp RRJ Coupling and FI Joints	Global Pipe	Hobas		SN10000, PN16	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP	Use is subject to acceptance by SP
02	4.5 - Sp-Sp RKJ Coupling and Fi Joints 4.6 - SBR & EPDM 4.7 - Standard Glass	Promains	Superlit	DN300 - DN 3000						
03							<u> </u>			
04		1		1			1		I	

SEQ WATER SUPP	LY AND SEWERAGE DESIGN AND	CONSTRUCTION	CODE			August 2014			ACCEPTED CIVIL P	RODUCTS AND MATERIA
A	В	С	D	E	F	G	Н	I	J	К
	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
Category: WATE	ER SUPPLY FITTINGS - PRES	SURE	-	•	·				·	
6	201 4.1 - Soc-Soc & Sp-Sp & FI-FI	Pentair	Auslite	DN 100 & 150	Light weight fittings Thermal bonded polymeric coating All DI to be wrapped					Use of Restrained Joint Rubber Rings (Tyton-lok) subject to acceptance by SP
DI bends	4.2 - Standard and PN16 fittings 4.3 - Restraint Joint Seals by SP approval 4.4 - SBR & EPDM	Pentair Crevet Vinidex Derwent Gillies DN100 & DN150	Superlink	DN up to 750	Thermal bonded polymeric coating All DI to be wrapped					
DI tapers, tees & branches	201 4.1 - Soc-Soc/Soc & Sp-Sp/Sp & FI-FI/FI & Soc-Soc/FI & Sp-Sp/FI 4.2 - Standard and PN16 fittings 4.3 - Restraint Joint Seals by SP approval 4.4 - SBR & EPDM	Pentair Crevet Vinidex Derwent Gillies DN100 & DN150	Superlink	DN up to 750	Thermal bonded polymeric coating All DI to be wrapped					Use of Restrained Joint Rubber Rings (Tyton-lok) subject to acceptance by SF
DI mechanical couplings - Non End Thrust Restraint 19	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	Pentair Crevet AVK Viking Johnson Derwent DEKS	Gibault Ezigib & Vari-Gib Gibault & Universal Multigib Gibault & Universal MaxiFit, QuickFit DEKS FLEXI-GIB	DN up to 750 DN 80 to 600	Long type All DI to be wrapped				Use of DEKS FLEXI-GIB is subject to acceptance by SP	
DI mechanical couplings - End Thrust Restraint (Gripper Type) 0	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	1- Hawle (Hygrade) 2- +GF+	1- Synoflex PN16 Restraint coupling for AC, PVC, DICL, SCL 2- Multi/ joint 3000 Plus restraint type for AC, PVC, DICL, SCL	DN 50-300					The use of Synoflex is subject to acceptance by SP	
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) Vario WSA PA 12/09	Vario	DN50 - DN200					Use is subject to acceptance by SP	
Pretapped connectors	201 4.1 - Soc-Soc only 4.2 - Standard and PN16 fittings 4.3 - Restraint Joint Seals by approval 4.4 - SBR & EPDM DN100 to DN150 with 4 x 20BSP tappings at 2 per side and DN200 to DN300 1 x 50BSP tapping	Pentair Crevet Vinidex	Readytap Pretapped Superlink	DN 100 to 300 DN 100 & 150 DN 100 & 150	Thermal bonded polymeric coating		SP USE ONLY			
3	246 4.1 – Blue or Black for DW and Purple for NDW	4N Products & Stockbrands	Supertap	DN 100 & 150	Only used on Series 2 PVC pipe Not suitable for DI pipe WSAA Appraisal 12/18		SP USE ONLY		Use is subject to acceptance by SP	
Flange 316 SS off-take clamps	313 4.1 - Type F and Type R subject to pipe material 4.2 - Pipe DN by SP approval 4.3 - Off-take DN by approval	Crevet Pentair	Wang	Offtake DN 100 to 300	Min. PN16, Approved on DI and CI host pipes only, to Pipe manufacturers specifications	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
5	260 4.1 - PN16	AVK	Series 57 (light type only with DN100 & 150) Series 36/80 Series 01/71 Series 55	Up to DN400 Up to DN150 Up to DN150 DN450 to 600	Anchor legs approved PE Pipe ended approved Gripper ends approved					
6 Resilient seated gate valves, thermal bonded polymeric	 4.2 - All End configurations accepted 4.3 - Integral By-pass on DN450 and larger 4.4 - Gear Box on DN600 and larger 	Hawle (Hygrade)	E 2 FL Ends E.2 System 2000 A Valve FL & E-F Ends	DN 50 - 200 DN 50 - 300 DN80 - 200	WSAA Appraisal 04/03 WSAA Appraisal 06/07			Use is subject to acceptance by SP		
coating.	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	Pentair	Series 500 Auslite Bayard	Up to DN600 DN 80, 100 & 150 DN 50 - 200	Anchor Legs approved With PE pipe tails approved					
8 9 20	4.9 - SBR & EPDM	Karon/Challenger AVFI	Karon	DN80 - DN600					Lice is subject to acceptance by SP	
9		Promains	BETTA	DN100 - DN375					Use is subject to acceptance by SP Use is subject to acceptance by SP	Use is subject to acceptance by SP
1		AAP Industries	Maxiflo	DN80 to DN300	WSAA Appraisal 11/26 Issue 2			Use is subject to acceptance by SP	Use is subject to acceptance by SP	, , , , , , , , , ,
Butterfly Valves	263 4.1- PN16 4.2- resilient seated wafer, lugged or double flanged	Pentair	Keystone	DN 50-600 for wafer/ lugged DN100-1000 double flanged	Stainless Steel 316, Thermal Bonded Polymeric Coated, Body Coatings FC to AS/NZS4158, Certified for contact with drinking water to AS 4020, Valve flanges to comply with AS4087-PN16	Small DN Property Service valves are lugged. Trunk DN valves are double flanged.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
Hydrants 3	267 4.1 - DN80 and DN100 Flanges	AVK Pentair Gatic/Milne Toowoomba Foundry Promains	Series 30/00 non-swab and 30/10 for swab Sureflow swab and non- swab See AVK BETTA		Removable Top Cap & Internal Assembly. Thermal bonded polymeric coating. Purple body and lug for recycled water.	DN80 Flange to A.S.4087 Fig B5 Purple Body and Lug for A+ Recycled water Swabbing type at main ends refer SEQ- WAT-1302-1	DN80 Flange to A.S.4087 Fig B5 Swabbing type at main ends refer SEQ- WAT-1302-1	DN80 Flange to A.S.4087 Fig B5 Swabbing type at main ends refer SEQ- WAT-1302-1	Swash type with DN100 flange to AS 4087 Fig B5 or B7. 100mm hydrant riser shall be used. For PE system, additional to DN125, a DN90 PE riser may be used with Plasson slotted flange adaptor set Use of Betta hydrant is subject to acceptance by SP	All new hydrants are to be 100 mm with removable top cap and internal assemb All new hydrants shall be Swash Type I FBE coated. All new hydrants shall hav 100 mm flanges, 100 mm risers and spri heads.
Valve box & cover C.I.	No WSA-PS Refer details on SEQ-WAT-1305-1 and SEQ-WAT- 1306-1	Pentair NIBF (Iplex) Tellam			Bitumen coated to AS 3750.4					
Hydrant box & cover C.I.	No WSA-PS Refer details on SEQ-WAT-1305-1 and SEQ-WAT- 1306-1	Gatic/Iplex Pentair NIBF (Iplex) Tellam Gatic/Iplex			Bitumen coated to AS 3750.4					
Valve & hydrant boxes (recycled plastics) & DI Covers	No WSA-PS Refer details on SEQ-WAT-1305-1	Pentair Crevet Vinidex			Non-trafficable location only. H - Hydrants V - Valves AV - Air valve	Coloured to SEQ-WAT-1300-1 and SEQ- NDW-2309-1	Coloured to SEQ-WAT-1300-1 and SEQ- NDW-2309-1	Coloured to SEQ-WAT-1300-1 and SEQ- NDW-2309-1	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

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SEQ WATER SUPP				-	_	August 2014				RODUCTS AND MATERIAL
Product	B WSAA Product Specification No. with Service Provider Specific Requirements	C Manufacturer / Supplier	D Trade Name	E Size Range	F Specified Requirements / Minimum Class	G City of Gold Coast	H Logan City Council	Redland City Council	QUU	к Unitywater
Plastic surround to 28 valve/hydrant boxes	No WSA-PS For sizes refer details on SEQ-WAT-1306-1	Repeat Plastics				Coloured to SEQ-WAT-1300-1 and SEQ- NDW-2309-1	Coloured to SEQ-WAT-1300-1 and SEQ- NDW-2309-1	Coloured to SEQ-WAT-1300-1 and SEQ- NDW-2309-1	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
Valve extension spindles	262 4.1 - DN100 to DN525/600 4.2 - Length by Design 4.3 - Bitumen coated Spindle support with bearing at 1 per installation minimum and at 1.8m max spacings	Pentair NIBF (Iplex) Forge Bros (Vinidex) Challenger			AS2638 Compliant	Use of Challenger extension valve is subject to acceptance by SP	Use of Challenger extension valve is subject to acceptance by SP	Use of Challenger extension valve is subject to acceptance by SP	Use of Challenger extension valve is subject to acceptance by SP	Use of Challenger extension valve is subject to acceptance by SP
Flanges MS 30	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 - Sintakote minimum 4.9 - SBR & EPDM 4.10 - Sintakote minimum	Pentair NIBF (Iplex)			Class 16 Thermal bonded polymeric coating					
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 - Hardness as per range in Table 2 of WSA 109- 2011 4.6 - Thickness of 3.0mm at PN16 and 1.5mm at PN35									
Bolts	No WSA-PS Refer details on SEQ-WAT-1313-1				316 Stainless steel bolts					
PE mechanical compression fittings for Small Diameter Water Service pipes	208 Up to 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 Philmac Plasson Elster TOF Talbot Alprene Iplex Pentair		Up to DN63	PN16		Use of Iplex and Pentair fittings are subject to acceptance by SP	Use of Elster fittings accepted. Use of fittings (other than Elster) subject to acceptance by SP	Use of Iplex and Pentair fittings are subject to acceptance by SP	
	208 DND and language Olympic 200.0 (c) and to EN 4054	Plasson (Vinidex)		Coupler up to DN710		Accepted for DN63 and DN 110	Accepted for DN63 and DN 110	Accepted for DN63 and DN 110		
PE Fittings – couplings, tees, bends, elbows/adjustable end caps, stub flanges, saddles,		George Fischer	ELGEF Plus Draw - Lock		Comply with AS4129, PN16, Electrofusion fittings to be long type Stub flanges only to be used for sizes larger than reticulation sizes	Accepted for DN63 and DN 110	Accepted for DN63 and DN 110	Accepted for DN63 and DN 110		
reducers for mains and large 36 service pipes	Female Iron, Transition PE to Copper, Full Face Flange Adaptor, Coupler PE to PE, Service Tapping, Tees,	Cromford	Fusion Provida	Up to DN355		Accepted for DN63 and DN 110	Accepted for DN63 and DN 110	Accepted for DN63 and DN 110		
37	Bends 4.4 - AS 4087 compatibility for mating flange 4.5 - SBR & EPDM	Friatec / Philmac	Frialen		Stub flanges only to be used for sizes larger than reticulation sizes	Accepted for DN63 and DN 110	Accepted for DN63 and DN 110	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP
38	208 DN63 and larger 2.(a) - AS/NZS4129 or EN 12201, EN 13244 or EN	Plasson / Vinidex		DN80/DN100	DN90 riser with slotted flanges suit both DN80 & DN100 hydrants to WSAA 98/50	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use of stub flanges is subject to acceptanc by SP
39	14525 acceptable Certification 4.1 - PN16 minimum 4.2 - Electrofusion or Butt Weld	lplex		Up to DN355	Full face full bore connections	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use of stub flanges is subject to acceptanc by SP
Full face PE flanges (for reticulation sizes)	 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 	Friatec / Philmac	Frialen	Up to DN180	Metal insert in the flange, backing rings not required	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
11	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 is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use of stub flanges is subject to acceptanc by SP
42	245 Joining to PE Pipe only	Hawle (Hygrade)	System 2000 Synoflex	Up to DN630						
43 DI Restraint fittings (for PE) -	2.(a) - EN 12201, EN 13244 or EN 14525 acceptable Certification	+GF+	Multi/Joint 3000	Up to DN355	Restraint type, Flange adaptor up to				The use of Synoflex, AquaFast or AquaGrip	
couplings, flange adaptors, 44 tees, bends, end caps	2.(b) - Plastic fittings not permitted 4.1 - PN16	AVK	Supa Plus	Up to DN315	DN355 shall be full bore connection				is subject to acceptance by SP	
	4.2 - SBR & EPDM seal options with AS 4087 "Figure" compatibility for mating flange with WSA PS 312 gasket	Viking Johnson (Philmac)	AquaFast AquaGrip	Up to DN630						

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A	В	С	D	E	F	G	Н	I	J	К
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
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 Kingston Bridge/Iplex			Comply with AS4129	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
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 Bermad Vent-O-Mat AVFI	DAV-MH	DN 50 - 200	PN16, Double Orifice as required, Thermal bonded polymeric coating	DN40 and DN50 BSP threaded to have Brass base	DN40 and DN50 BSP threaded to have Brass base	DN40 and DN50 BSP threaded to have Brass base	Use is subject to acceptance by SP	
Non-return valves	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 j) Flanged to AS 4087 Figure B5	HMA Valveco Dobbie Dico AVK AVK Challenger Valves AVFI Pty Ltd	Valmatic Swing-flex Dobbie Dico AVK Swing Check Valve 41/25 AVK Swing Check Valve 41/8X Challenger - RSSC AVFI - RSFC		Thermal bonded polymeric coating	CoGC only accepts Non-Return Valves with Lever arm and Counterweight - Lever to directly control swing check for open and close CHALLENGER, VALVECO and AVFI NOT ACCEPTED BY SP	Only use valves with capacity for lever arm to open and close the valve AVK and Dobbie Dico are acceptable CHALLENGER and other valves without lever arm NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use of Challenger and AVFI Valves are subject to acceptance by SP	UW prefers non-return valves without counterweight lever arms. Refer item (e) of the Product Specification column. One piece NBR Nylon Reinforced Steel disc
Pressure reducing valves	268 See Appendix B of AS5081:2008	Bermad Water Technologies Fluid Controls Sales & Installations Plasson Australia Pty Ltd Dorot Australia Pty Ltd Cla-Val Pacific /Challenger	Bermad Singer Plasson C-Valve Dorot 300 Series Cla-Val	DN 40 - 900 DN 25 - 1200	Min PN16, Thermal bonded polymeric coating	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP (Plasson C-valve preferred by Unitywater)
Pressure sustaining valves and altitude valves	s 268 See Appendix B of AS5081:2008	Bermad Water Technologies Fluid Controls Sales & Installations Dorot Australia Pty Ltd Cla-Val Pacific /Challenger		DN 40 - 900 DN 25-1200(Sustaining) DN 80 - 1200 (Altitude)	Min PN16, Thermal bonded polymeric coating	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
PE Flex Restraint Fitting (u 1 as puddle flange)	used	+GF+		Up to DN1600	E-F type follow manufacturer's requirements.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
Dismantling joints for Flang Pipe and Fittings	201 4.1 - FI-FI for DJ & FI/Sp for UniFlange 4.2 - Thrust type and non-thrust type minimum PN16 4.3 - Thrust Restraint by Fitting 4.4 - SBR & EPDM	Pentair Viking Johnson			Thrust 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.					
63										

SEQ WATER SUPP	LY AND SEWERAGE DESIGN AND	CONSTRUCTION	CODE			August 2014			ACCEPTED CIVIL P	RODUCTS AND MATER
A	B WSAA Product Specification No.	С	D	E	F	G	Н	1	J	К
Product	with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
Category: WATI		•	•	•	•					
Tanning hands for DL & DVC	310	Pentair Gatic/Milne			Gunmetal - Positive stops	SP USE ONLY		SP USE ONLY		
Tapping bands for DI & PVC pipes	4.1 - DN100 to DN3004.2 - Without Electrical Isolation4.3 - Female Rp thread to AS ISO 7.1	RMC Elster			Positive stops, coloured blue					
		4N Products & Stockbrands	4N	DN 100, 150, 200	WSAA Appraisal PA10/18 Gunmetal - Positive stops	NOT ACCEPTED BY SP		SP USE ONLY		
		Gatic/Milne Elster		DN63-DN315 DN63	Only for where E-F saddles are not practicable	NOT ACCEPTED BY SP		SP USE ONLY		NOT ACCEPTED BY SP
Tapping bands for PE - mechanical	327 4.1 - Pipe DN63 and larger (see WSA PS 207 above) - Off-take ID 20mm minimum 4.2 - PN16	4N Products & Stockbrands	4N	DN 63, 90, 125 & 180	Positive stops, coloured black Only for where E-F saddles are not practicable WSAA Appraisal PA10/19	NOT ACCEPTED BY SP		SP USE ONLY		
	4.3 - Without electrical Isolation4.4 - Female Rp thread to AS ISO 7.1	Hawle (Hygrade Water)	Haku	DN 63 - DN 315	Ductile iron lower half		Use is subject to acceptance by SP	SP USE ONLY	Use is subject to acceptance by SP	
		Hawle (Hygrade Water)	Haku	DN 250 - DN 630	Stainless steel strap lower half		Use is subject to acceptance by SP	SP USE ONLY	Use is subject to acceptance by SP	NOT ACCEPTED BY SP
	329 329.2. (a) - EN Standards accepted 4.1 - Pipe DN63 and larger (see WSA PS 207 above) - Off-take ID 20mm minimum	Plasson (Vinidex) George Fischer Friatec / Philmac		DN 63, 90, 125 & 180	Comply with AS4129	Accepted for DN63 and DN 110	SP USE ONLY	Accepted for DN63 and DN 110 Use of Friatec product is subject to acceptance by SP	Use of Friatec product is subject to acceptance by SP	Use of Friatec product is subject acceptance by SP
electrofusion	4.2 - PN16 4.3 - Without electrical Isolation 4.4 - Combined Saddle and Outlet off-take with integral cutter/shut off	Cromford	Fusion Provida	Up to DN250	PN16	Accepted for DN63 and DN 110	SP USE ONLY	Accepted for DN63 and DN 110		
Ferrules - TPFNR Bonnet Ferrule Cocks	No WSA-PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS 3688. 2 - PN16 with ability for under pressure tapping 3 - Male R thread to AS ISO 7.1 4 - Outlet fitting PE to WSA PS 207 or Copper to WSA PS 214 5 - DNS0 to include 90 degree bend with union connection to AS3688 at outlet	Gatic/Milne Elster RMC			Dezincification resistant material and comply with AS/NZS 3688	SP USE ONLY		SP USE ONLY		
Ball valves - Water Service	 274 274.2(a) - Compliance with AS 4796 274.2.(b) - Plastic not permitted 4.1 - PN16 minimum 4.2 - Water Supply Property Service 4.3 - DR Copper Alloy 4.4 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4.5 - 90 Degree closure with 38mm handle for maintap and 50mm handle for meter. Meter ball valve with Locking open/close function 	Gatic/Milne Elster RMC TOF Cimberio/Strongcast	Strongcast		Dezincification resistant material and comply with AS/NZS 3688	Accepted for DN20 & DN 25	Accepted for DN20 and DN25 at meter end of services Use of Strongcast products are subject to acceptance by SP	Accepted for DN20 & DN 25 Use of Strongcast product is subject to acceptance by SP	Use of Strongcast products are subject to acceptance by SP	
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 Elster RMC			25 mm Dezincification resistant material and comply with AS/NZS 3688	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
Transition couplers	208 Up to DN63 2.(a) - 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 not used 4.4 - Flange not used 4.5 - SBR & EPDM	Plasson +GF+ Friatec / Philmac			PE to BSP connections		Use of Friatec product is subject to acceptance by SP	Use of Friatec product is subject to acceptance by SP	Use of Friatec product is subject to acceptance by SP	Use of Friatec product is subject acceptance by SP
Meters - 20 mm (direct metering applications)	No WSA-PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer 4 - Std Tail Nut with gasket 5 - Colour and Check Valve requirements as per SEQ- SP requirements	Elster Metering RMC Itron	V100 (PSM-T) MRP, Endurance multijet TD8		Purple body for non-drinking water Accuracy Class 2	Meter brand and model subject to acceptance by SP	Meter brand and model subject to acceptance by SP	Meter brand and model subject to acceptance by SP	Use of V200 is permitted. V100 is only accepted for above ground installation. MRP shall only be installed horizontally.	Refer to Unitywater Water Mete Specification
Meters - 25 mm (direct metering applications)	No WSA-PS 1 - AS 3565.1 Certified 2 - Integral Strainer 3 - Std Tail Nut with gasket 4 - Colour and Check Valve requirements as per SEQ- SP requirements	Elster Metering RMC	V100 (PSM-T) MRP		Purple body for non-drinking water Accuracy Class 2	Meter brand and model subject to acceptance by SP	Meter brand and model subject to acceptance by SP	Meter brand and model subject to acceptance by SP		Refer to Unitywater Water Met Specification
Meters - 32 & 40 mm (direct metering applications)	No WSA-PS 1 - AS 3565.1 Certified 2 - Integral Strainer 3 - Std Thread for attachment of a AS3565.1 Clause 2.6 (DR) Copper Alloy Oval Flange with two Bolts 4 - Colour and Check Valve requirements as per SEQ- SP requirements	Elster Metering RMC	V100 (PSM-T) MRP		Purple body for non-drinking water Accuracy Class 2	Meter brand and model subject to acceptance by SP	Meter brand and model subject to acceptance by SP	Meter brand and model subject to acceptance by SP		Refer to Unitywater Water Met Specification
Meters - 50 mm and larger (direct 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	ltron Elster RMC Sensus	Woltex H4000 Helix Arad Meistream		Purple body for non-drinking water Accuracy Class 2	Meter brand and model subject to acceptance by SP Magflow meters not accepted.	Meter brand and model subject to acceptance by SP	Meter brand and model subject to acceptance by SP		
	No WSA-PS 1- Flange to AS4087 Figure 5 2- PN16	Refer to Electrical IPAM List	Refer to Electrical IPAM List			Refer to Electrical IPAM List	Refer to Electrical IPAM List	Refer to Electrical IPAM List	Refer to Electrical IPAM List	Refer to Electrical IPAM List

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SEQ WATER SUPP	Q WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE					August 2014		ACCEPTED CIVIL PRODUCTS AND MATERIALS			
A	B WSAA Product Specification No.	С	D	E	F	G	Н	1	J	К	
Product	with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater	
Meters - 20 mm (sub-metering applications)	No WSA-PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer 4 - Std Tail Nut with gasket 5 - Colour and Check Valve requirements as per SEQ- SP requirements	Elster Metering RMC Itron	V100 (PSM-T) MRP, Endurance multijet TD8		Purple body for non-drinking water Accuracy Class 2	SubMetering Accepted items - DCV: RMC - MRP & PD, Elster - V100, Actaris - 20000-20-DOSG	SubMetering Accepted items - DCV: RMC - MRP & PD, Elster - V100, Actaris - 20000-20-DOSG	SubMetering Accepted items - DCV: RMC - MRP & PD, Elster - V100, Actaris - 20000-20-DOSG	Use of V200 is permitted. V100 is only accepted for above ground installation. MRP shall only be installed horizontally.	Refer to Unitywater Water Meter Specification	
Meters - 25 mm (sub-metering applications) 3	No WSA-PS 1 - AS 3565.1 Certified 2 - Integral Strainer 3 - Std Tail Nut with gasket 4 - Colour and Check Valve requirements as per SEQ- SP requirements	Elster Metering RMC	V100 (PSM-T) MRP		Purple body for non-drinking water Accuracy Class 2	SubMetering Accepted items - DCV: Elster V100, RMC WM252 PD, Actaris 25/022/00000	SubMetering Accepted items - DCV: Elster V100, RMC WM252 PD, Actaris 25/022/00000	SubMetering Accepted items - DCV: Elster V100, RMC WM252 PD, Actaris 25/022/00000		Refer to Unitywater Water Meter Specification	
Meters - 32 & 40 mm (sub-metering applications)	No WSA-PS 1 - AS 3565.1 Certified 2 - Integral Strainer 3 - Std Thread for attachment of a AS3565.1 Clause 2.6 (DR) Copper Alloy Oval Flange with two Bolts 4 - Colour and Check Valve requirements as per SEQ- SP requirements	Elster Metering RMC	V100 (PSM-T) MRP		Purple body for non-drinking water Accuracy Class 2	SubMetering Accepted items: DN40: Elster V100, RMC WM402MRP	SubMetering Accepted items: DN40: Elster V100, RMC WM402MRP	SubMetering Accepted items: DN40: Elster V100, RMC WM402MRP		Refer to Unitywater Water Meter Specification	
Meters - 50 mm and larger (sub-metering applications) 5	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	ltron Elster RMC Sensus	Woltex H4000 Helix Arad Meistream		Purple body for non-drinking water Accuracy Class 2	SubMetering use subject to acceptance by SP Elster H4000, ABB Aquamaster	SubMetering use subject to acceptance by SP Elster H4000, ABB Aquamaster	SubMetering use subject to acceptance by SP Elster H4000, ABB Aquamaster			
Automatic Meter Reading (AMR) Systems (sub-metering applications)		Enware Epitomy Halytech Utiligy Utility Technology				Hard-wired systems only			Use of Utiligy AMR system is subject to acceptance by SP.		
Meter boxes - 20 mm	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 2mm Galvanised Chain or 2mm 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 Draper Strongcast		368 long x 271 wide	Blue, Black or Green meter box lids	Blue Lid not permitted	SubMetering Accepted items: Draper and Everhard Blue Lid not permitted Use of Srongcast meter box is subject to acceptance by SP	SubMetering Accepted items: Draper and Everhard Blue Lid not permitted Use of Strongcast product is subject to acceptance by SP	NOT ACCEPTED BY SP	Purple lid for non-drinking water meter box Black or green lid for drinking water meter box Blue lid not permitted	
Meter boxes - 25 mm	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 2mm Galvanised Chain or 2mm 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 Draper		492 long x 271 wide	Blue, black or green box lid	SubMetering Accepted items: Draper and Everhard Blue Lid not permitted	SubMetering Accepted items: Draper and Everhard Blue Lid not permitted	SubMetering Accepted items: Draper and Everhard Blue Lid not permitted	For both 20 & 25mm meters. Solid purple lid with non-drinking water symbol and lettering for non-drinking water meters. Black or blue lid for drinking water meters. Green lid not permitted.	Purple lid for non-drinking water meter box Black or green lid for drinking water meter box Blue lid not permitted	
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	Pentair		DN100 & DN150	Model SC03. Flanged connection & spring set to 35 kPa	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Fitted with inline strainer with Parts No.: 2065077 for 100mm and 2065078 for 150mm		
Double detector check valve, Reduce pressure zone device	No WSA-PS	Pentair Bermad	Cla-Val	DN40, 50, 100 & 150		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
Pre-assembled dual meter boxes	No WSA-PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Elser Tellam		DN20	Drinking & Drinking or Drinking & Non-drinking	Install approved pre-assembled boxes as per SEQ-WAT-1106 set	Install approved pre-assembled boxes as per SEQ-WAT-1106 set	Install approved pre-assembled boxes as per SEQ-WAT-1106 set	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
Sub-meter assemblies	No WSA-PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Elser Tellam All Valve	SMA20M	DN20	Drinking or Non-drinking	Only install approved sub-meter assembly SMA20M as per CoGC Sub-Meter Guideline	Only install approved sub-meter assembly SMA20M as per CoGC Sub-Meter Guideline	Install approved sub-meter assemblies as per CoGC Sub-Meter Guideline Use of SMA20M subject to acceptance by SP	Use is subject to acceptance by SP	See Unitywater Sub-Metering Policy Technical Specification SMA20M NOT ACCEPTED BY SP	
Dual Check valves for Meter assemblies DN40 and Larger 3	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	Pentair				SubMetering Accepted items for external attachment to meter assembly : Tyco	SubMetering Accepted items for external attachment to meter assembly : Tyco	SubMetering Accepted items for external attachment to meter assembly : Tyco	Use is subject to acceptance by SP		
Backflow prevention device (RPZ)	No WSA_PS AS/NZS 2845	LW Gemmell RMC Pentair	RP03						Any brand with ISO Type 5 product certification to AS2845 is accepted	UW prefers RP03 RPZ	
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SEQ WATER SUFF	ER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE August 2014									ACCEPTED CIVIL PRODUCTS AND MATERIAL	
A	В	С	D	E	F	G	н	I	J	К	
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater	
6 Category: WATER SUPPLY MISCELLANEOUS ITEMS											
Detectable marker tape	318 4.1 - Tape/ <i>Product</i> Colour - Drinking Water = Blue preferred (Green accepted via SP approval). Non-Drinking Water = Purple. Sewerage = Cream 4.2 - Message = " Caution <i>PRODUCT</i> Buried Below " 4.3 - SS 316 tracer wire 4.4 - See 4.1 above	Boddington Tapex Gemmell								UW accepts only blue detectable marker tape for drinking water	
Loose PE sleeving to DI pipe	320 Colours are Blue for Drinking Water and Purple for Non Drinking Water to POP203	Pentair Crevet	BLUEBOSS blue		Mandatory sleeving to all DI pipe						
PVC - M conduits	209 4.1 - PN12 4.2 - Water Service Conduit 4.3 - Series 1 SCJ 4.4 - White for Water Conduit 4.5 - SCJ only	Vinidex Iplex Pentair	Hydro S1		PN12 Series 1					UW requires uPVC PN9 series 1 with solvent weld joint- Refer drawing SEQ-WA1 1108-1.	
Embedment material - crushed rock 90	351 4.1 - Single sized. 4.2 - Nominal 5 or 7mm										
Embedment material - recycled concrete 91	366 4.1 - Single sized 10mm nominal 4.2 - Moisture Content by design	Queensland Recycling				NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		NOT ACCEPTED BY SP	
Bedding sand 92	AS/NZS 2566.2 Table G3 for sand.					Main pipe use is subject to acceptance by SP Service pipe use mandatory	Main pipe use is subject to acceptance by SP Service pipe use mandatory	Main pipe use is subject to acceptance by SP Service pipe use mandatory			
Concrete 93	357 4.1 - N20 for Thrust Blocks and Unreinforced embedment. N25 for reinforced embedment 4.2 - Slumps as required for placement				Normal class						
Security fencing 94				AS1725.1 Chain Link Fabric Fencing-powder coated black		Fence details generally to CoGC Standard Drawing 05-05-004	Fence details generally to CoGC Standard Drawing 05-05-004	Fence details generally to CoGC Standard Drawing 05-05-004	Use is subject to acceptance of SP		
Plastic marker post 95	1- Comply with Main Roads specification MRS11.14	Park International			As per SEQ-WAT-1300-2						
96 97											
98											
99 Category: EMER	RGENCY STORAGE CHAMBE	RS									
00		Envirotank Pty Ltd	Envirotank - Water/Wastewater Tank	From 4.8m x 1.2m dia. (5kl) to 16.4m x 3.0m dia. (110kl)	Fibreglass construction	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	
Underground Storage Chamber 01		Rocla Humes	Concrete Detention System	Conc. Box units (2.4m modules) Conc. Pipe units (2.44m modules)	Reinforced Concrete - Sacrificial layer or Plastilined	CoGC accepts only PE lined Pipe	LCC accepts only PE lined Pipe	RCC accepts only PE lined Pipe		UW accepts only PE lined Pipe	
02			Plastic Detention System 'Plastream'	1.5m to 2.25m dia (10kl to 250kl)	PE spirally wound steel-reinforced pipe	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
03										+	
05	1	1								1	