

SEQ Water Supply and Sewerage Design & Construction Code

SEQ Accepted Infrastructure Products and Materials

SCHEDULE OF AMENDMENTS

Amendment No.4 – April 2016



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Schedule of Amendments to SEQ Accepted IPAM Lists (Changes from January 2015 Version to April 2016 Version)

SEQ Accepted Civil IPAM List	
Products	Change
General	Products containing multiple manufacturers/suppliers split into separate rows for each manufacturer/supplier to make list clearer.
General	Removed all references to Promains from the manufacturer/supplier column.
Category: Sewerage Pipes and Fittings- Non Pressure	
PVC-U pipe and fittings – DWV system	Column C: Changed manufacturer/supplier from Pentair to Viadux Column I: Replaced “Use of Pipemakers product is subject to acceptance by SP” with “DN100 at SN6 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum”
PVC-U Pressure pipe Sewer using Standard DWV Junctions	Column C: Changed manufacturer/supplier from Pentair to Viadux
DI Pipe	Column C: Changed manufacturer/supplier from Pentair to Viadux Added a new manufacturer/supplier with following details. Column C: Saint-Gobian Column D: Integral Zinalium Column E: DN100 - 750 Column F: 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 Column G: pH1 version accepted Column H: Left Blank i.e. product accepted Column I: Use is subject to acceptance by SP Column J: Use is subject to acceptance by SP Column K: Use is subject to acceptance by SP Added Crevet/Iplex Ironite CAC lined pipe to list.
Steel Pipe	Column C: Changed manufacturer/supplier from Pentair to Steel Mains
Polypropylene (PP) Pipe	Added new Manufacturer/Supplier: Enviropipes EnviroPipe, accepted by CoGC, NOT ACCEPTED BY SP for QUU, Subject to acceptance by SP for LCC, RCC & UW.
PE pipe - NuSewers	Column C: Changed manufacturer/supplier from Pentair to Viadux Added a new manufacturer/supplier with following details: Column C: Enviropipes Column D: Enviropressure Columns G to I: NOT ACCEPTED BY SP Column J: Use is subject to acceptance by SP Column K: Left Blank i.e. product accepted
PE fittings - moulded	Column C: Changed manufacturer/supplier from “Friatec/Philmac” to “Friatec/Vinidex” and “Plasson / Vinidex” to “Plasson” Added a new manufacture/supplier: Agru AGRU, NOT ACCEPTED BY SP for CoGC, LCC & RCC, accepted by QUU & UW. Added new Manufacturer/Supplier: NUPIGECO Elofit, accepted by Unitywater, Subject to acceptance for other 4 SPs.

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VC pipe	Column K: Changed requirement from “Use is subject to acceptance by SP” to “May only be used as jacking pipes”.
DI IO bends or X Drop fitting	Column C: Changed manufacturer/supplier from Pentair to Viadux
Metal-banded flexible coupling	Column C: Added a new manufacture/supplier with following details. Column C: DEKS Column D: DEKS shear banded coupling Column E: DN100 to DN225 Column F: Column G: Left blank i.e. accepted by SP Column H: Use is subject to acceptance by SP Column I: Use is subject to acceptance by SP Column J: Use is subject to acceptance by SP Column K: Left blank i.e. accepted by SP
DI mechanical couplings – Non End Thrust Restraint	Column C: Changed manufacturer/supplier from Pentair to Viadux Column J: Removed comment “Use of DEKS FLEXI-GIB is subject to acceptance by SP” i.e. product accepted.
GRP pipe and Fittings	Split product type GRP Pipe and Fittings into two separate product types: <ol style="list-style-type: none"> 1. GRP Pipe and Fittings – Sewer Pipe 2. GRP Pipe and Fittings – Jacking Pipe Column B: Added Product Specification No. 237S for Sewer Pipe. Column B: Added Product Specification No. 205J / 206J and specified requirements for Jacking Pipe. Column C: Added “Superlit / Clover Pipelines” as a manufacturer / supplier for “Superlit”. Added Flowtite / Iplex product to Jacking Pipe list. Column K: Removed note “Flowtite – open cut only” for Sewer Pipe. Column K: Removed note “Hobas – Coupling Grade 316 Stainless Steel (min.) for Pipe Jacking” for Jacking Pipe.
Knife Gate Valves (Deleted Product)	Replaced Knife Gate Valves with following three items. <ol style="list-style-type: none"> 1. Knife gate valve – Stainless Steel 2. Knife gate valve – Fabricated Stainless Steel 3. Knife gate valve – Ductile Iron body

Knife gate valve –
Stainless Steel
(New Product)

Added a new product “Knife gate valve – Stainless Steel” with following details.

Column A: Knife gate valve – Stainless Steel

Column B:

266

4.1 - PN10

4.2 - Wafer or Lugged

4.3 - Clockwise closing, rising spindle

Column C & D as following.

Column C	Column D
Pentair	Keystone
Challenger	Challenger
AVFI	AVFI
HMA Valveco	
AVK (Note: This is the only vendor complying with 316 SS throughout.)	AVK

Column E: Up to DN600

Column F: 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.

Column G: Use is subject to acceptance by SP

Column H: Left blank i.e. products accepted

Column I: Use is subject to acceptance by SP

Column J: For Pentair / Keystone and Challenger / Challenger, left blank i.e. products accepted

For AVFI / AVFI, HMA Valveco and AVK / AVK, “Use is subject to acceptance by SP”

Column K: For Pentair/Keystone, Challenger/Challenger, AVFI/AVFI and HMA Valveco, “Subject to meeting the corrosion resistance requirements in Column F

For AVK/AVK, left blank i.e. product accepted

<p>Knife gate valve – Fabricated Stainless Steel (New Product)</p>	<p>Added a new product “Knife gate valve – Fabricated Stainless Steel” with following details. Column A: Knife gate valve – Fabricated Stainless Steel Column B: 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 isolation etc.) Column C: Australian Water Engineers Column D: Australian Water Engineers Column E: DN700 to DN1200 Column F: Body, Gate, Gland Follower, Spindle and Yoke / Pillar / Bridge stainless steel Grade 316. Seat EPDM. All fasteners stainless steel Grade 316. Column G: Use is subject to acceptance by SP Column H: Use is subject to acceptance by SP Column I: Use is subject to acceptance by SP Column J: Use is subject to acceptance by SP Column K: Left blank i.e. product accepted.</p>										
<p>Knife gate valve – Ductile Iron Body (New Product)</p>	<p>Added a new product “Knife gate valve – Ductile Iron Body” with following details. Column A: Knife gate valve – Ductile iron body Column B: 266 4.1 – PN10 4.2 – Wafer of Lugged 4.3 – Clockwise closing, rising spindle Column C & D as following.</p> <table border="1" data-bbox="512 1355 1423 1594"> <thead> <tr> <th>Column C</th> <th>Column D</th> </tr> </thead> <tbody> <tr> <td>Pentair</td> <td>Keystone</td> </tr> <tr> <td>Challenger</td> <td>Challenger</td> </tr> <tr> <td>AVFI</td> <td>AVFI</td> </tr> <tr> <td>AVK</td> <td>AVK</td> </tr> </tbody> </table> <p>Column E: Up to DN600 Column F: 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. Column G: Use is subject to acceptance by SP Column H: Left blank i.e. products accepted Columns I & J: Use is subject to acceptance by SP Column K: Left blank i.e. products accepted</p>	Column C	Column D	Pentair	Keystone	Challenger	Challenger	AVFI	AVFI	AVK	AVK
Column C	Column D										
Pentair	Keystone										
Challenger	Challenger										
AVFI	AVFI										
AVK	AVK										

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Category: Sewerage Pipes and Fittings- Pressure

PVC-M pipe	<p>Column C: Changed manufacturer/supplier from Pentair to Viadux</p> <p>Column I: Changed the requirements for Pipemakers from “use is subject to acceptance by SP” to blank i.e. the product is accepted.</p>
DI Pipe	<p>Column C: Changed manufacturer/supplier from Pentair to Viadux Added three new manufacturers/suppliers to the list as following.</p> <p>1- Vinidex LINK products for PN 20, PN 35 and Flange Class pipes, with both standard and CAC cement mortar lining, accepted by CoGC, subject to acceptance by others.</p> <p>2- Column C: Crevet/Iplex Column D: Irontite Column E: DN 100 150 200 250 300 375 450 500 600 & 750 (not 225) Column F: PN35 and PN35, CAC lining for corrosive flows Column G: Cement Mortar lining of any type is not permitted within 5.0 meters of the HGL at pump stop. Alternative non-corrosive lining or pipe and fittings required. Column H: Cement Mortar lining of any type is not permitted within 5.0 meters of the HGL at pump stop. Alternative non-corrosive lining or pipe and fittings required. Column I: Cement Mortar lining of any type is not permitted within 5.0 meters of the HGL at pump stop. Alternative non-corrosive lining or pipe and fittings required. Column J: Use is subject to acceptance by SP Column K: 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. 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.</p> <p>3- Column C: Saint-Gobain Column D: Integral Zinalium Column E: DN100 – DN750 (not 225) Column F: 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. Column G: Cement Mortar lining of any type is not permitted within 5.0 metres of the HGL at pump stop. Alternative non-corrosive lining or pipe and</p>

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	<p>fittings required.</p> <p>Column H: Left blank i.e. product accepted</p> <p>Column I: Cement Mortar lining of any type is not permitted within 5.0 meters of the HGL at pump stop. Alternative non-corrosive lining or pipe fittings required.</p> <p>Column J: Use is subject to acceptance by SP.</p> <p>Column K: Use is subject to acceptance by SP.</p>
<p>DI pipe – ISO (New Product)</p>	<p>Added a new product “DI pipe – ISO” with following details.</p> <p>Column A: DI pipe – ISO</p> <p>Column B: 202S</p> <p>4.1 – K9-PN35</p> <p>4.2 – Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp</p> <p>4.3 – Polyurethane lining only</p> <p>4.4 – Restrained Joints on Zinc/Bitumen coated pipe</p> <p>4.5 –Only Polyurethane coating on aerial pipes</p> <p>4.6 – SBR and EPDM</p> <p>Column C: Von Roll / Reece</p> <p>Column D: Ducpur/ Ecopur</p> <p>Column E: DN80 to 700</p> <p>Column F: Polyurethane internal protection</p> <p>Column G: Detector Tape for ISO Pipe spirally wound along pipe and over PE sleeve on Zinc/Bitumen pipe.</p> <p>Column H: Use is subject to acceptance by SP</p> <p>Column I: Use is subject to acceptance by SP</p> <p>Column J: Use is subject to acceptance by SP</p> <p>Column K: Use is subject to acceptance by SP</p>
<p>DI Fittings</p>	<p>Column C: Changed manufacturer/supplier from Pentair to Viadux.</p> <p>Columns C & D: Changed manufacturer/supplier from Himgiri Castings/Galvin to Himgiri Castings/Galvin Engineering / CivilPipes and changed size range for the Galvin item from DN80 to 150 to DN80 to DN300.</p> <p>Column I: Removed comment “Use of Galvin fitting is subject to acceptance by SP” i.e. product accepted.</p> <p>Column K: Removed comment “Use of Galvin fitting not accepted by SP” for Unitywater i.e. product accepted.</p> <p>Added two new manufacturers/suppliers with following details:</p> <p>1-</p> <p>Column C: Dobbie Dico</p> <p>Column D: Dobbie</p> <p>Column E: DN100 to DN250</p> <p>Column F: Thermal bonded polymeric coating is the standard material in WSA PS 201 and WSA PS212</p> <p>Column G: left blank i.e. product accepted</p> <p>Column H: Use is subject to acceptance by SP</p> <p>Column I: left blank i.e. product is accepted</p> <p>Column J: left blank i.e. product is accepted</p>

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	<p>Column K: Product is accepted with following notes in the cell 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.</p> <p>2-</p> <p>Column C: Mallet Column D: Mallet Column E: DN80 to DN750 Column F: Thermal bonded polymeric coating is the standard material in WSA PS 201 and WSA PS212 Column G: left blank i.e. product accepted Column H: left blank i.e. product accepted Column I: left blank i.e. product accepted Column J: left blank i.e. product accepted Column K: Product is accepted with following notes in the cell 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.</p>
<p>Flange 316 SS off-take clamps</p>	<p>Column A: Rephrased product name from Flange 316 SS off-take clamps to 316 SS repair and flanged off-take clamps Column B: Changed item 4.1 from Type F and R to Type R Column C: Changed manufacturer/supplier from Pentair to Viadux Moved Hawle / Hygrade Water under New Product "Flange (DI) off-take clamps Added a new manufacturer with following details: Column C: Control Cascade Column D: Rapid Clamps Column E: DN40 to DN350 Column F: Min. PN16, Approved on DI and CI host pipes only, to Pipe manufacturers specifications Column G: Use is subject to acceptance by SP Column H: Use is subject to acceptance by SP Column I: Use is subject to acceptance by SP Column J: Use is subject to acceptance by SP Column K: left blank i.e. accepted</p>

<p>Flange DI off-take clamps (New Product)</p>	<p>Added a new product “Flange (DI) off-take clamps” with following details. Column A: Flange (DI) off-take clamps Column B: 327 4.1 – Pipe DN63 and larger (see WSA PS 207 above)- off-take ID 20mm minimum 4.2 – PN16 4.3 – Without electrical isolation 4.4 – Female Rp thread to AS ISO 7.1 Column C: Hawle / Hygrade Water Column D: Haku Column E: DN125 to DN355 Column F: For use on PE pipe only, installed and commissioned in accordance with manufacturers recommendations Column G: Use is subject to acceptance by SP Column H: Use is subject to acceptance by SP Column I: Use is subject to acceptance by SP Column J: Left blank i.e. product accepted Column K: Left blank i.e. product accepted</p>
<p>Metal-banded flexible couplings</p>	<p>Changed Product Type in Column A to “Metal-banded flexible couplings – Vacuum Valve coupling use only”. For Flex-Seal product, changed response for CoGC and QUU to blank i.e. product accepted. Added new Manufacturer: DEKS shear banded coupling, accepted by CoGC, Subject to Acceptance by SP for LCC, RCC & QUU, and NOT ACCEPTED BY SP for UW.</p>
<p>DI mechanical couplings – Non End Thrust Restraint</p>	<p>Column C: Changed manufacturer/supplier from Pentair to Viadux Column J: Removed comment “Use of DEKS FLEXI-GIB is subject to acceptance by SP” i.e. product accepted.</p>
<p>DI mechanical fittings - End Thrust Restraint (Gripper Type)</p>	<p>Column J: Added note “Only accepted for use where welded joints are not practical” Column K: Added the following requirements: For Hawle / Hygrade Water – “Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations” For all products - "The use of gripper type fittings on AC, PVC, DI and SCL pipe subject to acceptance by SP"</p>
<p>DI flanged telescopic flexible fitting</p>	<p>Column C: Rephrased manufacturer/supplier name from Hawle (Hygrade) Vario to Hawle / Hygrade Water</p>
<p>Dismantling joints for Flange Pipe and Fittings</p>	<p>Column C: Changed manufacturer/supplier from Pentair to Viadux Column G: Added “Restrained type only” for Viadux item Column G: Added “NOT ACCEPTED BY SP” for Viking Johnson item Added three new manufacturers/suppliers with following details: 1- Column C: Valveco Column D: Uni-Flange Adaptor Column E: DN50-DN500</p>

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	<p>Column F: Thrust restraint type and non-thrust type are Flanged to AS4087 PN16, SS316 bolts, nuts and washers. Larger sizes of Uni-Flange shall be assessed for available Fitting PN vs Pipeline Test Head.</p> <p>Column G: Use is limited – refer to SP for advice</p> <p>Column H: Left blank, i.e. product accepted</p> <p>Column I: Use is subject to acceptance by SP</p> <p>Column J: Use is subject to acceptance by SP</p> <p>Column K: Left blank, i.e. product accepted</p> <p>2-</p> <p>Column C: Hygrade Water</p> <p>Column D: Pipemate</p> <p>Column E: DN80-DN900</p> <p>Column F: Thrust restraint type and non-thrust type are Flanged to AS4087 PN16, SS316 bolts, nuts and washers. Larger sizes of Uni-Flange shall be assessed for available Fitting PN vs Pipeline Test Head.</p> <p>Column G: NOT ACCEPTED BY SP</p> <p>Column H: Left blank, i.e. product accepted</p> <p>Column I: Use is subject to acceptance by SP</p> <p>Column J: Use is subject to acceptance by SP</p> <p>Column K: Left blank, i.e. product accepted.</p> <p>3-</p> <p>Column C: AVFI</p> <p>Column D: AFD10 Series</p> <p>Column E: DN80-DN1200</p> <p>Column F: Thrust restraint type and non-thrust type are Flanged to AS4087 PN16, SS316 bolts, nuts and washers. Larger sizes of Uni-Flange shall be assessed for available Fitting PN vs Pipeline Test Head.</p> <p>Column G: Restrained type only</p> <p>Column H: Restrained type only</p> <p>Column I: Use is subject to acceptance by SP</p> <p>Column J: Use is subject to acceptance by SP</p> <p>Column K: Left blank, i.e. product accepted.</p>
<p>PE pipe</p>	<p>Column C: Changed manufacturer/supplier from Pentair to Viadux Added a new manufacturer/supplier with following details: Column C: Cromford Column D: Indentipipe Columns G to I: Use is subject to acceptance by SP Column G: PE is preferred pipe material Column K: PE is preferred pipe material Added a new manufacturer/supplier with following details: Column C: Enviropipes Column D: Enviropressure Columns G to J: Use is subject to acceptance by SP Column K: PE is preferred pipe material For QUU, added PE shall be used unless specific site conditions dictate otherwise.</p>

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PE fittings	<p>Column C: Changed manufacturer/supplier from Friatec/Philmac to Friatec/Vinidex</p> <p>Added a new manufacturer/supplier: Agru AGRU, accepted by QUU & Unitywater, Subject to acceptance for other 3 SPs.</p> <p>Added new Manufacturer/Supplier: NUPIGECO Elofit, accepted by Unitywater, Subject to acceptance for other 4 SPs.</p>
Full face PE flanges	<p>Column C:</p> <p>Changed manufacturer/supplier from Plasson/Vinidex to Plasson</p> <p>Changed manufacturer/supplier from Friatec/Philmac to Friatec/Vinidex</p>
Steel pipe	<p>Column C: Changed manufacturer/supplier from Pentair to Steel Mains</p>
Stainless Steel Pipe (New Product)	<p>Added a new product with the following details.</p> <p>Column A: Stainless Steel Pipe</p> <p>Column B: No WSA-SP</p> <p>WSAA Materials Fact Sheet No:2 Selection of Stainless Steels</p> <p>WSAA Materials Fact Sheet No:3 Fabricating Stainless Steels</p> <p>Column C: ASSDA accredited fabricators</p> <p>Column D: N/A</p> <p>Column E: DN100 - DN750</p> <p>Column F: Min. Grade 316</p> <p>Min. PN16</p> <p>Flange to AS4087 Fig B5</p> <p>Column G: Use is subject to acceptance by SP</p> <p>Column H: Use is subject to acceptance by SP</p> <p>Column I: Use is subject to acceptance by SP</p> <p>Column J: Use is subject to acceptance by SP</p> <p>Column K: left blank, i.e. product accepted</p>
Resilient seated gate valve, thermal bonded polymeric coating	<p>Column C: Changed manufacturer/supplier from Pentair to Viadux</p> <p>Column D: Added Auslite II for Viadux</p> <p>Changed trade name for AAP Industries valve from Maxiflow to Maxiflo/appFLO</p> <p>Column E: Added DN200 - DN300 for Viadux Auslite II</p> <p>Column G: Stated GCCC's requirement for all manufacturers as "DN600 and larger valves shall be DeZurik Eccentric Plug Valves"</p> <p>Column H, I, J and K: Left columns H to K blank for Viadux Auslite II as product is accepted by all SPs</p> <p>Column I: Changed RCC response for AAP Industries to blank i.e. accepted</p> <p>Column J: Changed QUU response for Karon/Challenger, Betta and AAP Industries to blank i.e. products accepted.</p> <p>Column K: Changed requirement for "Hawle" from blank to "Use of Hawle system 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations."</p> <p>Added new manufacturer/supplier: Derwent Industries, accepted by CoGC, LCC, RCC, QUU & UW.</p>
Ball Valves	<p>Column C: Changed manufacturer/supplier from Pentair to Pentair/Viadux.</p> <p>Column D: Added trade name Keystone.</p>

GRP Pipe and Fittings	<p>Column B: Added Added Product Specification No. 237S</p> <p>Column C: Added "Superlit/Clover Pipelines" as a manufacturer/supplier for "Superlit"</p>
Category: Sewerage Miscellaneous Items	
Maintenance shaft covers, frames and risers DN<=450	Column G & K: Changed GCCC and Unitywater response for Aymroo from "Use is subject to acceptance by SP" to blank as the product is accepted
Maintenance hole lightweight composite lids and frames (non-corrosive)	Column F: for Terra Firma product, changed "Composite - Class D" to "Composite - Class B and D".
Maintenance Shaft PVC	<p>Column H: Changed LCC's response to "Refer to clause 6.7.2 of the SEQ Sewerage Code"</p> <p>Column I: Changed RCC response to "Refer to clause 6.7.2 of the SEQ Sewerage Code".</p>
Maintenance Shafts PE	<p>Column H: Changed LCC response to "Refer to clause 6.7.2 of the SEQ Sewerage Code"</p> <p>Column I: Changed RCC response to "Approved for DN150 to DN225 RIGSS only. Refer to clause 6.7.2 of the SEQ Sewerage Code. Refer Standard Drawing SEQ-SEW-1314-Set for other approved PE MS and MH options"</p>
Maintenance Shaft Polypropylene	<p>Split column A into two separate Product Types as follows:</p> <ul style="list-style-type: none"> • Maintenance Shafts Polypropylene – DN425 and DN600 Risers • Maintenance Shafts Polypropylene – DN225 and DN300 Risers <p>Maintenance Shafts Polypropylene – DN425 and DN600 Risers</p> <p>Column B wording changed to:</p> <p>337</p> <p>4.1 – DN425 and DN600 Risers</p> <p>4.2 – Polypropylene Riser</p> <p>4.3 – DN425 SN4 & DN600 SN8 riser pipe</p> <p>4.4A – DN425 Base with DN150 sewer</p> <p>4.4B – DN600 Base with DN150/225 sewer</p> <p>4.5 – In-line and bends and tees</p> <p>4.6 – Base and Riser ribbed</p> <p>4.7A – EPDM or SBR Ring Joints RIGSS</p> <p>4.8 – No locking or relief cap</p> <p>4.9 - Standard MH surround, cover and frame</p> <p>Column D: added "& PA 09/1-2"</p> <p>Column G: added "as per Cell B"</p> <p>Column H: Changed LCC response to "Refer to clause 6.7.2 of the SEQ Sewerage Code"</p> <p>Column I: Added in RCC's response the following. "Refer to clause 6.7.2 of the SEQ Sewerage Code."</p> <p>Column K: Added requirement for Unitywater that "Approved for DN150 to DN225 RIGSS only as per cell B, Base is single DN size, NOT ACCEPTED FOR NUSEWER"</p>

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	<p>Maintenance Shafts Polypropylene – DN225 and DN300 Risers</p> <p>Column B wording changed to:</p> <p>337</p> <p>4.1 – DN225 and DN300 Risers</p> <p>4.2 – PVC Riser</p> <p>4.3 – SN8 riser pipe</p> <p>4.4 - DN150 sewer</p> <p>4.5 – In-line and bends and tees</p> <p>4.6 – Base ribbed, Riser Solid Wall PVC</p> <p>4.7 – EPDM or SBR Ring Joints RIGSS</p> <p>4.8 –Locking relief cap as per Standard Drawings</p> <p>4.9 - Standard MH surround, cover and frame</p> <p>Column H: Changed LCC’s response to “Refer to clause 6.7.2 of the SEQ Sewerage Code”</p> <p>Column I: Changed RCC’s response to “Approved for DN150 RIGSS only. Refer to clause 6.7.2 of the SEQ Sewerage Code.”</p> <p>Column K: Added requirement for Unitywater that “Approved for DN150 RIGSS only”</p> <p>Added new product: REHAU (OD400-GD and OD400-RML models), accepted by CoGC, NOT ACCEPTED by QUU, Subject to acceptance for LCC, RCC and UW.</p>
Plastic Maintenance Holes	<p>Column B: added “Minimum DN1000 chamber and DN600 neck”</p> <p>Column D: Added trade name Smart Pit</p>
Valve box and cover C.I. & D.I.	<p>Column C: Changed the manufacturer/supplier from Pentair to Viadux</p>
Loose PE sleeving to DI pipe	<p>Column C: Changed the manufacturer/supplier from Pentair to Viadux</p>
Gas release valves	<p>Excluded Valmatic Valve from the list hence the following changes are made in columns H & I.</p> <p>Column H: Deleted “The use of Valmatic Valve is subject to acceptance by SP”</p> <p>Column I: Deleted “The use of Valmatic Valve is subject to acceptance by SP”</p>
Non-return valves - Swing check with counterweight lever arm	<p>Split column A into two separate rows as following.</p> <ol style="list-style-type: none"> 1. Non-return valves – Swing check with counterweight lever arm 2. Non-return valves – Free acting (without counterweight) Swing Check <p>1- Non-return valves - Swing check with counterweight lever arm</p> <p>Column B:</p> <p>264</p> <p>Refer Appendix B of AS4794</p> <ol style="list-style-type: none"> 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 <p>Column D: added & PA 09/1-2</p>

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	<p>Column C: HMA Valveco Dobbie Dico AVK AVK Challenger Valves AVFI Pty Ltd</p> <p>Column D: Valmatic Swing-flex Dobbie Dico AVK Swing Check Valve 41/25 AVK Swing Check Valve 41/8X Challenger - RSSC AVFI - RSFC</p> <p>Column E: DN 50 - DN 600 DN 80 - DN 900 DN 50 DN 80 - DN 300 DN 80 - DN 375 DN 50 - DN 300</p> <p>Column F: MIN. PN16, Thermal bonded polymeric coating</p> <p>Column G: Deleted "CoGC only accepts Non-Return Valves with Lever arm and Counterweight – Lever to directly control swing check for open and close. (this statement is deleted because now a separate item for Non-return valve "without counterweight" has been added). For Challenger, Valveco and AVFI, "NOT ACCEPTED BY SP"</p> <p>Column H: Deleted "SP only accepts Non-Return Valves with Lever arm and Counterweight – Lever to directly control swing check for open and close. Use of valves that do not meet this requirement are subject to case by case approval by SP" (this statement is deleted because now a separate item for Non-return valve "without counterweight" has been added).</p> <p>Column I: Use is subject to acceptance by SP</p> <p>Column J: Use of Challenger and AVFI Valves are subject to acceptance by SP</p> <p>Column K: Replaced "UW prefers non-return valves without counterweight lever arms. Refer item (e) of the product Specification column. One piece NBR Nylon Reinforced Steel Disc" with "NOT ACCEPTED BY SP"</p> <p>2- Non-return valves – Free acting (without counterweight) Swing Check This is a newly added item with following details.</p> <p>Column B: 264 Refer Appendix B of AS4794 a) Class - PN16 min - Size by Design</p>
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	<p>b) Medium - Sewage c) Installation - Horizontal d) Spindle - Extended j) Flanged to AS 4087 Figure B5</p> <p>Column C: HMA Valveco Dobbie Dico AVK AVK Challenger Valves AVFI Pty Ltd</p> <p>Column D: Valmatic Swing-flex Dobbie Dico AVK Swing Check Valve 41/25 AVK Swing Check Valve 41/8X Challenger - RSSC AVFI - RSFC</p> <p>Column E: DN 50 - DN 600 DN 80 - DN 900 DN 50 DN 80 - DN 300 DN 80 - DN 375 DN 50 - DN 300</p> <p>Column F: MIN. PN16, Thermal bonded polymeric coating Column G: NOT ACCEPTED BY SP Column H: Use is subject to acceptance by SP Column I: Use is subject to acceptance by SP Column J: Use of Challenger and AVFI Valves are subject to acceptance by SP Column K: For AVFI, "Use is subject to acceptance by SP"</p>
PVC-U Fabricated Fittings Fibreglass reinforced PVC Type 'D' junctions & fittings	Column K: Added notation "DN100 at SN10, DN150 and larger at SN8 and Fittings at SN8 minimum"
Security Fencing	Column E/F: Moved notation in Column E to Column F. Columns G, H & I: Changed drawing reference from 05-05-004 to 05-014.
Category: Water Supply Pipes – Pressure	
PVC-M pipe	Column C: Changed the manufacturer/supplier from Pentair to Viadux Column I: Changed RCC response to Pipemakers from "subject to acceptance by SP" to blank i.e. product accepted. Column J: Added note saying "Only accepted where PE is unsuitable"
DICL pipe	Column C: Changed manufacturer/supplier from Pentair to Viadux Column E: Added note "(not 225)" for all products Column J: For Viadux/Tytonxcel, Iplex/Crevet/Irontite and Viadux/Flange Class, added note saying "Only accepted where PE is unsuitable" and extended note regarding seal coat to cover Flange Class pipe.

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	<p>Added Vinidex LINK products for PN 20, PN 35 and Flange Class pipes, accepted by CoGC, subject to acceptance by others.</p> <p>Added a new manufacturer “Saint-Gobain” with following details.</p> <p>Column C: Saint-Gobain</p> <p>Column D: Hydroclass Zinalium</p> <p>Column E: DN100 – DN750 (not 225)</p> <p>Column F: 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</p> <p>Column G: Seal coat on pipes >= 450</p> <p>PN20 - Use is subject to acceptance by SP</p> <p>Column H: Seal coat on pipes >= 450</p> <p>PN20 - Use is subject to acceptance by SP</p> <p>Column I: Seal coat on pipes > = 450. PN20 – Use is subject to acceptance by SP</p> <p>Column J: Use is subject to acceptance by SP</p> <p>Column K: Use is subject to acceptance by SP</p>
<p>DI pipe – ISO (New Product)</p>	<p>Added a new product with following details.</p> <p>Column B:</p> <p>202S</p> <p>4.1 – K9-PN35</p> <p>4.2 – Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp</p> <p>4.3 – Restrained Joints on Zinc/Bitumen coated pipe</p> <p>4.4 – Polyurethane without seal coating</p> <p>4.5 –Only Polyurethane coating on aerial pipes</p> <p>4.6 – SBR and EPDM</p> <p>Column C: Von Roll / Reece</p> <p>Column D: Ducpur/ Ecopur</p> <p>Column E: DN80 to 700</p> <p>Column F: Polyurethane internal protection</p> <p>Column G: Detector Tape for ISO Pipe spirally wound along pipe and over PE sleeve on Zinc/Bitumen pipe.</p> <p>Column H: Use is subject to acceptance by SP</p> <p>Column I: Use is subject to acceptance by SP</p> <p>Column J: Use is subject to acceptance by SP</p> <p>Column K: Use is subject to acceptance by SP</p>
<p>SCL pipe</p>	<p>Column C: Changed the manufacturer/supplier from Pentair to Steel Mains</p> <p>Column J: Added a note saying “only accepted where PE is unsuitable”</p>
<p>PE pipe</p>	<p>Column C: Changed the manufacturer/supplier from Pentair to Viadux</p> <p>Added a new manufacturer/supplier with following details:</p> <p>Column C: Enviropipes</p> <p>Column D: Enviropressure</p> <p>Columns G: Limited acceptance as standard for PE pipe in CoGC</p> <p>Columns H to J: Use is subject to acceptance by SP</p> <p>Column K: left blank i.e. product accepted</p> <p>Column J: Added a note saying “PE shall be used unless specific site conditions dictate otherwise”</p>

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GRP Pipe and Fittings	Column B: Added Product Specification No. 237 Column C: Added "Superlit/Clover Pipelines" as a manufacturer/supplier for "Superlit"
Stainless Steel Pipe (New Product)	Added a new product with following details. Column A: Stainless Steel Pipe Column B: No WSA-SP WSAA Materials Fact Sheet No:2 Selection of Stainless Steels WSAA Materials Fact Sheet No:3 Fabricating Stainless Steels Column C: ASSDA accredited fabricators Column D: N/A Column E: DN100 - DN750 Column F: Min. Grade 316 Min. PN16 Flange to AS4087 Fig B5 Column G: Use is subject to acceptance by SP Column H: Use is subject to acceptance by SP Column I: Use is subject to acceptance by SP Column J: Use is subject to acceptance by SP Column K: left blank i.e. product accepted
Category: Water Supply Fittings – Pressure	
Lightweight DI bends, tees/branches & connectors	Column C: Changed manufacturer/supplier from Pentair to Viadux. Added a new manufacturer: Dobbie Dico, accepted by CoGC, RCC, QUU & UW, Use is subject to acceptance for LCC.
DI bends, tapers, tees/branches, connectors, risers & caps/blank ends	Column C: Changed manufacturer/supplier from Pentair to Viadux Columns C & D: Changed manufacturer/supplier from Himgiri Castings/Galvin to Himgiri Castings/Galvin Engineering / CivilPipes and changed size range for the Galvin item from DN80 to 150 to DN80 to DN300. Columns I & K: Removed comment "The use of Galvin DI fittings is subject to acceptance by SP" as the product is accepted Added a new manufacturer: Dobbie Dico, accepted by CoGC, RCC, QUU & UW, Use is subject to acceptance for LCC. Added a new manufacturer: Mallet, accepted by all 5 SPs.
DI mechanical couplings – Non End Thrust Restraint	Column C: Changed manufacturer/supplier from Pentair to Viadux Column J: Removed comment "Use of DEKS FLEXI-GIB is subject to acceptance by SP"
DI mechanical fittings - End Thrust Restraint (Gripper Type)	Column K: Added the requirement for Unitywater that "The use of gripper type fittings on AC, PVC, DI and SCL pipe subject to acceptance by SP"
Pretapped connectors	Column C: Changed manufacturer/supplier from Pentair to Viadux
Flange 316 SS off-take clamps	Column A: Changed product name to 316 SS repair clamps, flanged off-take clamps & BSP tapping clamps Column B: Changed item 4.1 from "Type F and R subject to pipe material" to "Type R" Column C: Changed manufacturer/supplier from Pentair to Viadux Moved "Hawle/Hygrade Water" and associated details to a new product "Flange (DI) off-take clamps" Added a new manufacturer: Control Cascade Rapid Clamps, accepted by

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	UW, Use is subject to acceptance for CoGC, LCC,RCC & QUU.
Flange DI off-take clamps (New Product)	<p>Moved Hawle/Hygrade Water from Flanged SS316 Off-take clamps to create a new item as following.</p> <p>Column A: Flange (DI) off-take clamps</p> <p>Column B: 327</p> <p>4.1 - Pipe DN63 and larger (see WSA PS 207 above) - Off-take ID 20mm minimum</p> <p>4.2 - PN16</p> <p>4.3 - Without electrical Isolation</p> <p>4.4 - Female Rp thread to AS ISO 7.1</p> <p>Column C: Hawle/Hygrade Water</p> <p>Column D: Haku</p> <p>Column E: DN110 to DN355</p> <p>Column F: For use on PE pipe only, installed and commissioned in accordance with manufacturers recommendations</p> <p>Column G: Use is subject to acceptance by SP</p> <p>Column H: Use is subject to acceptance by SP</p> <p>Column I: Use is subject to acceptance by SP</p> <p>Column J: Left blank i.e. product accepted</p> <p>Column K: Left blank i.e. product accepted</p>
Resilient seated gate valves, thermal bonded polymeric coating	<p>Column C: Changed manufacturer/supplier from Pentair to Viadux</p> <p>Column D: Changed trade name from Maxiflo to Maxiflo/appFLO</p> <p>Column E: Changed size range to "Up to DN300" for AVK Series 36/80 and Series 01/71</p> <p>Column G: Added CoGC's requirement as "DN500 and DN600 with DN100 By-pass. DN750 with DN150 By-pass"</p> <p>Column J: Removed the note "Use of Auslite II is subject to acceptance by SP" and left blank as the product is accepted</p> <p>Changed QUU response for Betta to blank (accepted).</p> <p>Changed QUU response for AAP Industries Maxiflow/appFLO to blank (accepted).</p> <p>Column K: Changed Unitywater's response to Hawle (Hygrade) to "Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations"</p> <p>Removed the note "Use of Auslite II is subject to acceptance by SP" and left blank as the product is accepted</p> <p>Added new manufacturer/supplier: Derwent Industries, accepted by CoGC, LCC, RCC, QUU & UW.</p>
Butterfly Valves	<p>Column C: Changed the manufacturer/supplier from Pentair to Pentair/Viadux.</p> <p>Column F: Rephrased requirements as following.</p> <p>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.)</p> <p>Column G: Rephrased requirements as following.</p> <p>DN100 to DN250 Property Service valves are lugged and Anti-clockwise</p>

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	<p>closing hand lever operated. DN375 and larger valves are double flanged and Anti-clockwise closing gearbox operated.</p> <p>Column I: Added note saying "Direction of closing: Anti-clockwise"</p> <p>Column K: Added note saying "Direction of closing: Clockwise"</p> <p>Added a new manufacturer/supplier with following details.</p> <p>Column C: Ebro</p> <p>Column D: Ebro</p> <p>Column E: DN50-600 for wafer/ lugged DN100-1000 double flanged</p> <p>Column F: 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.)</p> <p>Column G: DN100 to DN250 Property Service valves are lugged and Anti-clockwise closing hand lever operated. DN375 and larger valves are double flanged and Anti-clockwise closing gearbox operated.</p> <p>Column H: Use is subject to acceptance by SP</p> <p>Column I: Use is subject to acceptance by SP. Direction of closing: Anti-clockwise</p> <p>Column J: Use is subject to acceptance by SP</p> <p>Column K: Direction of closing: Clockwise</p> <p>Added a new manufacturer/supplier with following details.</p> <p>Column C: Valveco</p> <p>Column D: Valveco</p> <p>Column E: DN 50-600 for wafer/ lugged DN100-1000 double flanged</p> <p>Column F: 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.)</p> <p>Column G: DN100 to DN250 Property Service valves are lugged and Anti-clockwise closing hand lever operated. DN375 and larger valves are double flanged and Anti-clockwise closing gearbox operated</p> <p>Column H: Use is subject to acceptance by SP</p> <p>Column I: Use is subject to acceptance by SP. Direction of closing: Anti-clockwise</p> <p>Column J: Use is subject to acceptance by SP</p> <p>Column K: Direction of closing: Clockwise</p> <p>Added a new manufacturer/supplier with following details.</p> <p>Column C: Iplex</p> <p>Column D: AVK</p>
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	<p>Column E: DN 50-600 for wafer/ lugged DN100-1000 double flanged</p> <p>Column F: 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.)</p> <p>Column G: DN100 to DN250 Property Service valves are lugged and Anti-clockwise closing hand lever operated. DN375 and larger valves are double flanged and Anti-clockwise closing gearbox operated</p> <p>Column H: Use is subject to acceptance by SP</p> <p>Column I: Use is subject to acceptance by SP. Direction of closing: Anti-clockwise</p> <p>Column J: Use is subject to acceptance by SP</p> <p>Column K: Direction of closing: Clockwise</p>
Hydrants	<p>Column C: Changed the manufacturer/supplier from Pentair to Viadux</p> <p>Column J: Removed comment "Use of Betta hydrant is subject to acceptance by SP" i.e. product accepted.</p> <p>Added a new manufacturer/supplier AAP Industries MAXIFLO/appFLO, accepted by CoGC, LCC &UW, subject to acceptance for RCC & QUU.</p> <p>Added a new manufacturer/supplier Derwent Industries Derwent non-swab, accepted by CoGC & LCC, subject to acceptance for RCC, not accepted by QUU & UW.</p>
Hydrant and air valve isolator's valves (New Product)	<p>Added a new product with following details.</p> <p>Column A: Hydrant and air valve isolator's valves</p> <p>Column B: No WSA-PS</p> <p>Aligned to WSA_PS 201 and 270 with Flanges to AS 4087 Figure B5 To comply with WSA PS-201S when published</p> <p>Column C: AVK Viadux Crevet</p> <p>Column E: DN80 - DN100</p> <p>Column F: Thermal bonded polymeric coating Min. PN16</p> <p>Column G: left blank as product accepted</p> <p>Column H: DN80 Flange to AS4087 Fig B5 Swabbing type at main ends refer SEQ-WAT-1302-1</p> <p>Column I: Use is subject to acceptance by SP</p> <p>Column J: Use is subject to acceptance by SP</p> <p>Column K: Mandatory for Hydrants on Trunk Water mains >DN300 Isolator Valve for Hydrant - Min. DN100</p>
Valve box & cover C.I.	Column C: Changed manufacturer/supplier from Pentair to Viadux.
Hydrant box & cover C.I.	Column C: Changed manufacturer/supplier from Pentair to Viadux.
Valve & hydrant boxes (recycled plastics) & DI Covers	Column C: Changed manufacturer/supplier from Pentair to Viadux. Columns H & I: Removed reference to SEQ-NDW-2309-1.

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Plastic surround to valve/hydrant boxes	<p>Column C: Changed manufacturer/supplier from Repeat Plastics to Replas Australia.</p> <p>Column F: Added Non-trafficable location only.</p> <p>Columns H & I: Removed reference to SEQ-NDW-2309-1.</p>
Valve extension spindles	<p>Column B: Changed item 4.3 from “Bitumen coated” to “Valve extension spindles shall be coated with a polymeric coating to AS 4158 with 350 µm DFT (minimum), or Valve extension spindles shall be hot-dip galvanized in accordance with AS 4680.”</p> <p>Column C: Changed manufacturer/supplier from Pentair to Viadux</p>
Flanges MS	Column C: Changed manufacturer/supplier from Pentair to Steel Mains.
PE mechanical compression fittings for Small Diameter Water Service pipes	<p>Column C: Changed manufacturer/supplier from Philmac to Philmac and Vinidex Changed manufacturer/supplier from Pentair to Viadux</p> <p>Column G: Updated GCC’s requirement for all suppliers as “Only fittings with a Copper Alloy body and a Copper Alloy compression nut are approved for use”.</p> <p>Added new Manufacturer/Supplier: NUPIGECO Elopress, accepted by Unitywater, Subject to acceptance for other 4 SPs.</p>
PE fittings (for mains and large service pipes)	<p>Column C: Changed manufacturer/supplier from Plasson (Vinidex) to Plasson Changed manufacturer/supplier from Friatec/Philmac to Friatec/Vinidex</p> <p>Column K: Changed Unitywater’s response for Friatec from “NOT ACCEPTED BY SP” to blank i.e. product accepted</p> <p>Column J: Changed QUU’s response for Agru from “Use is subject to acceptance by SP” to blank i.e. product accepted</p> <p>Column K: Changed Unitywater’s response for Agru from “Use is subject to acceptance by SP” to blank i.e. product accepted</p> <p>Added new Manufacturer/Supplier: NUPIGECO Elofit, accepted by Unitywater, Subject to acceptance for other 4 SPs.</p>
Full face PE flanges (for reticulation sizes)	<p>Column C: Changed manufacturer/supplier from Plasson /Vinidex to Plasson Changed manufacturer/supplier from Friatec/Philmac to Friatec/Vinidex</p>
DI Restraint fittings (for PE) couplings, flange adaptors, tees, bends, end caps	<p>Column J: Added note “Only accepted for use where welded joints are not practical”</p> <p>Column K: Changed Unitywater requirement for System 2000 to “Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations”</p>
Non-return valves	<p>Split non-return valves into following two items</p> <ol style="list-style-type: none"> 1- Non-return valves – Swing check with counterweight lever arm 2- Non-return valves – Free acting (without counterweight) Swing Check <p>1- Non-return valves – Swing check with counterweight lever arm</p> <p>Column B: 264 Refer Appendix B of AS4794 a) Class - PN16 min - Size by Design b) Medium - Water</p>

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	<p>c) Installation - Horizontal d) Spindle - Extended e) Lever and Counterweight minimum with switches and indicators by Design j) Flanged to AS 4087 Figure B5 Column D: added & PA 09/1-2</p> <p>Column C: HMA Valveco Dobbie Dico AVK AVK Challenger Valves AVFI Pty Ltd</p> <p>Column D: Valmatic Swing-flex Dobbie Dico AVK Swing Check Valve 41/25 AVK Swing Check Valve 41/8X Challenger - RSSC AVFI - RSFC</p> <p>Column E: DN 50 - DN 600 DN 80 - DN 900 DN 50 DN 80 - DN 300 DN 80 - DN 375 DN 50 - DN 300</p> <p>Column F: MIN. PN16, Thermal bonded polymeric coating Column G: For Challenger, HMA Valveco and AVFI, "NOT ACCEPTED BY SP" and for others left blank i.e. accepted Column H: 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 Column I: Use is subject to acceptance by SP Column J: For Challenger and AVFI Valves, Use is subject to acceptance by SP Column K: NOT ACCEPTED BY SP</p> <p>2- Non-return valves - free acting (without counterweight) Swing check Column B: 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</p> <p>Column C: HMA Valveco Dobbie Dico AVK</p>
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	<p>AVK Challenger Valves AVFI Pty Ltd Column D: Valmatic Swing-flex Dobbie Dico AVK Swing Check Valve 41/25 AVK Swing Check Valve 41/8X Challenger - RSSC AVFI - RSFC</p> <p>Column E: DN 50 - DN 600 DN 80 - DN 900 DN 50 DN 80 - DN 300 DN 80 - DN 375 DN 50 - DN 300</p> <p>Column F: MIN. PN16, Thermal bonded polymeric coating Column G: NOT ACCEPTED BY SP Column H: Use is subject to acceptance by SP Column I: Use is subject to acceptance by SP Column J: For Challenger and AVFI Valves, "Use is subject to acceptance by SP" Column K: For AVFI, "Use is subject to acceptance by SP"</p>
<p>Pressure reducing valves</p>	<p>Column C: Changed the manufacturer/supplier for Singer valves from Fluid Control Sales & Installations to Singer / HMA Valveco Column G: Changed GCCC's requirement from "Use is subject to acceptance by SP" to "Dorot 300 Series for Pressure Reducing Valve and for associated Pressure Relief Valve (Dump Valve) Dorot 200 Series or Bermad IR-43Q Valve" Column K: Rephrased Unitywater's requirement as following. 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)</p>
<p>Pressure sustaining valves and altitude valves</p>	<p>Column C: Changed the manufacturer/supplier for Singer valves from Fluid Control Sales & Installations to Singer / HMA Valveco</p>
<p>PE Flex Restraint Fitting (used as puddle flange)</p>	<p>Added a new manufacturer/supplier with following details. Column C: Plasson Column D: Column E: Fits DN160 to DN1600 PE pipe Column F: PE100/ PE4710 resin Column G: NOT ACCEPTED BY SP Column H: NOT ACCEPTED BY SP Column I: NOT ACCEPTED BY SP Column J: Use is subject to acceptance by SP Column K: Left blank i.e. product accepted</p>

Dismantling joints from Flange Pipe and Fittings

Column C: Changed the manufacturer/supplier from Pentair to Viadux
 Column G: Added "For Mains only, restrained type only" for Viadux item
 Column G: Added "For Meter Assemblies only, restrained type only" for Viking Johnson item
 Added four new items with following details.

1.

Column C: Valveco
 Column D: Uni-Flange Adaptor
 Column E: DN50-DN500
 Column F: 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.
 Column G: Use is limited – refer to SP for advice
 Column H: Use is subject to acceptance by SP
 Column I: Use is subject to acceptance by SP
 Column J: Use is subject to acceptance by SP
 Column K: Left blank as products are accepted

2.

Column C: Hygrade Water
 Column D: Pipemate
 Column E: DN80-DN900
 Column F: 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.
 Column G: For Meter Assemblies only, restrained type only
 Column H: Use is subject to acceptance by SP
 Column I: Use is subject to acceptance by SP
 Column J: Use is subject to acceptance by SP
 Column K: Left blank as products are accepted

3.

Column C: AVFI
 Column D: AFD10 Series
 Column E: DN80-DN1200
 Column F: 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.
 Column G: For Mains only, restrained type only
 Column H: For Mains only, restrained type only
 Column I: Use is subject to acceptance by SP
 Column J: Use is subject to acceptance by SP
 Column K: Left blank, i.e. product accepted.

	<p>4.</p> <p>Column C: AVFI</p> <p>Column D: AFD20 Series</p> <p>Column E: DN80-DN1200</p> <p>Column F: Thrust restraint type and non-thrust type are Flanged to AS4087 PN16.</p> <p>SS316 bolts, nuts and washers.</p> <p>Larger sizes of UniFlange shall be assessed for available Fitting PN vs Pipeline Test Head.</p> <p>Column G: For Meter Assemblies only, restrained type only</p> <p>Column H: For Meter Assemblies only, restrained type only</p> <p>Column I: Use is subject to acceptance by SP</p> <p>Column J: Use is subject to acceptance by SP</p> <p>Column K: Left blank, i.e. product accepted.</p>
Category: Water Services	
Tapping bands for DI & PVC pipes	<p>Column C: Changed manufacturer/supplier from Pentair to Viadux</p> <p>Column G: Removed comment "SP USE ONLY"</p>
Tapping bands for PE – mechanical	<p>Column J:</p> <p>Changed QUU response for Hawle/Hygrade Water Haku with DI lower half to blank (accepted).</p> <p>Changed QUU response for Hawle/Hygrade Water Haku with SS strap lower half to "NOT ACCEPTED BY SP".</p>
Tapping saddles for PE – electrofusion	<p>Column C:</p> <p>Changed manufacturer/supplier from Plasson(Vinidex) to Plasson</p> <p>Changed manufacturer/supplier from Friatec/Philmac to Friatec/Vinidex</p> <p>Columns I & K: Removed comment "Use of Friatec product is subject to acceptance by SP".</p>
Ferrules – TPFNR Bonnet Ferrule Cocks	<p>Column G: Removed comment "SP USE ONLY"</p>
Ball valves – Water Service	<p>Column G: Updated GCC's requirement as follows: "Accepted for DN20 & DN25 Ball Valves with integral PE connections shall have a Copper Alloy body and a Copper Alloy compression nut for the pipe connection"</p> <p>Columns I & J: Removed comment "Use of Strongcast products are subject to acceptance by SP" i.e. the product is accepted</p> <p>Column K: Added Unitywater's requirement as "Ball valves must be capable of being locked by the customer with their own padlock"</p> <p>Added new item as follows:</p> <p>Column C: Austworld</p> <p>Column D: LOGI VALVE</p> <p>Columns G, H & K: product accepted</p> <p>Columns I & J: Use is subject to acceptance by SP</p>
Transition couplers	<p>Column C: Changed manufacturer/supplier from Friatec/Philmac to Friatec/Vinidex</p> <p>Column K: Removed note saying "Use of Friatec product is subject to acceptance by SP".</p> <p>Column K: Added note saying "Push fitting not accepted by SP".</p>

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<p>Meters - 20 mm (direct metering applications)</p>	<p>Column A: Renamed product type to include both direct and sub-metering applications.</p> <p>Columns C & D: Added new products Elster V200, RMC WM202PD, Enware Hydrus 171 Ehm5020vr and GVT TPWM.</p> <p>Changed details for RMC MRP Endurance multijet to provide more detail and show two variants: RMC WM273MRP multijet and RMC WM281MRP multijet.</p> <p>Column G: Changed CoGC's requirements to "All meters shall comply with the Council's Network Modifications, Extensions and Connections Policy", GVT TPWM not accepted.</p> <p>Column H: Changed LCC's requirements to "Refer to LCC Water Meter Specification".</p> <p>Column I: Added "Refer to RCC Water Meter Specification" to RCC's requirements.</p> <p>Column J: RMC, Enware and GVT meters noted as "Not Accepted by SP".</p> <p>Column K: Changed Unitywater's requirements to "All meters must comply with the Unitywater Water Meter Specification".</p>
<p>Meters - 25 mm (direct metering applications)</p>	<p>Column A: Renamed product type to include both direct and sub-metering applications.</p> <p>Column B: Added requirement "NSC/NMI Pattern Approved".</p> <p>Columns C & D: Added new products Itron TD8, RMC WM252PD and Enware Hydrus 171 Ehm5025vr.</p> <p>Changed details for RMC MRP to provide more detail: RMC WM271MRP multijet.</p> <p>Column G: Changed CoGC's requirements to "All meters shall comply with the Council's Network Modifications, Extensions and Connections Policy".</p> <p>Column H: Changed LCC's requirements to "Refer to LCC Water Meter Specification".</p> <p>Column I: Added "Refer to RCC Water Meter Specification" to RCC's requirements.</p> <p>Column J: Itron TD8 accepted, RMC and Enware meters noted as "Not Accepted by SP".</p> <p>Column K: Changed Unitywater's requirements to "All meters must comply with the Unitywater Water Meter Specification".</p>
<p>Meters - 32 & 40 mm (direct metering applications)</p>	<p>Column A: Renamed product type to include both direct and sub-metering applications and split into two separate product types for 32 mm and 40 mm meters.</p> <p>Column B: Added requirement "NSC/NMI Pattern Approved"</p> <p>Columns C & D: Changed details for RMC MRP for the 40 mm meter to provide more detail: RMC WM402MRP multijet.</p> <p>Column G: Changed CoGC's requirements to "Not accepted by SP" for 32 mm meters and "All meters shall comply with the Council's Network Modifications, Extensions and Connections Policy" for 40 mm meters.</p> <p>Column H: Changed LCC's requirements to "Refer to LCC Water Meter Specification".</p> <p>Column I: Added "Refer to RCC Water Meter Specification" to RCC's requirements.</p> <p>Column J: RMC meter noted as "Not Accepted by SP" for 32 mm meters, all meters noted as "Not Accepted by SP" for 40 mm meters.</p> <p>Column K: Changed Unitywater's requirements to "All meters must comply with the Unitywater Water Meter Specification".</p>

Meters – 50 mm and larger (direct metering applications)	<p>Column A: Renamed product type to include both direct and sub-metering applications.</p> <p>Columns C & D: Added new product Itron Flostar M.</p> <p>Changed details for following meters: Elster H4000 Helix changed to Elster H4000 Woltmann; RMC Arad changed to Arad/RMC Woltman Silver Turbo.</p> <p>Column G: Changed CoGC’s requirements to “All meters shall comply with the Council’s Network Modifications, Extensions and Connections Policy” and noted Itron and Sensus meters as not accepted.</p> <p>Column H: Changed LCC’s requirements to “Refer to LCC Water Meter Specification”.</p> <p>Column I: Added “Refer to RCC Water Meter Specification” to RCC’s requirements.</p> <p>Column K: Changed Unitywater’s requirements to “All meters must comply with the Unitywater Water Meter Specification”.</p>
Meters - 20 mm (sub-metering applications)	Deleted product type – now included with direct metering applications.
Meters - 25 mm (sub-metering applications)	Deleted product type – now included with direct metering applications.
Meters - 32 & 40 mm (sub-metering applications)	Deleted product type – now included with direct metering applications.
Meters – 50 mm and larger (sub-metering applications)	Deleted product type – now included with direct metering applications.
Automatic Meter Reading (AMR) Systems (sub-metering applications)	<p>Column B: Added note “Meter reading dials shall have between 0 kL and 10 kL of consumption showing at the time of meter supply”.</p> <p>Column G: Changed CoGC response for Halytech and Utiligy to “NOT ACCEPTED BY SP”.</p> <p>Column K: Added notation “AMR systems must comply with the Unitywater sub-metering Policy Technical Specification”.</p>
Meter boxes	<p>Column G: Changed response to “Blue lid not permitted” for all products.</p> <p>Column H: Changed response to “Blue lid not permitted” for all products.</p> <p>Column I: Changed response to “Blue lid not permitted” for all products plus “Use is subject to acceptance by SP” for Strongcast product.</p> <p>Column J: Removed comment “Use of Strongcast box is subject to acceptance by SP” as the product is accepted.</p>
Single check detector check valves	<p>Column C: Changed manufacturer/supplier from Pentair to Pentair/Viadux.</p> <p>Column D: Added trade name VALVCHEQ</p>
Double detector check valves, Reduced pressure zone device	<p>Column C: Changed manufacturer/supplier from Pentair to Pentair/Viadux.</p> <p>Column D: Added trade name VALVCHEQ for Pentair / Viadux</p>
Pre-assembled dual meter boxes	<p>Column C: Changed “Elser” to “Elster”</p> <p>Column H: Changed drawings reference from “SEQ-WAT-1106 set” to “SEQ-WAT-1110 set”</p> <p>Column I: Changed RCC’s requirements from “Install approved pre-assembled boxes as per SEQ-WAT-1106 set to “Install approved pre-assembled boxes as per SP requirements”</p>

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<p>Pre-assembled single meter boxes (New Product)</p>	<p>Added a new product with following details. Column A: Pre-assembled single meter boxes Column B: No WSA-PS 1- Approved Supplier Assemblies as per SEQ-SP requirements Column C: Strongcast Column D: SCMBA20 Column E: DN20 Column F: Drinking Column G: Install approved pre-assembled boxes as per SEQ-WAT-1106 set Column H: Install approved pre-assembled boxes as per SEQ-WAT-1110 set Column I: Use is subject to acceptance by SP Column J: Use is subject to acceptance by SP Column K: Use is subject to acceptance by SP</p>
<p>Sub-meter assemblies</p>	<p>Column C: Changed "Elser" to "Elster" Column D: Added trade name 46508-01 for Elster Column G: Changed CoGC's response to "Sub-meter assemblies shall comply with the Council's Network Modifications, Extensions and Connections Policy". Column I: Changed RCC's requirements for Elster and Tellam from "Install approved sub-meter assemblies as per CoGC Sub-Meter Guideline" to "Install approved sub-meter assemblies as per SP requirements". Column K: Removed "SMA20M not accepted by SP" Added a new product: Strongcast SCMLIM20, accepted by CoGC, subject to acceptance for LCC, RCC & QUU, See Unitywater Sub-Metering Policy Technical Specification for UW. Added a new product: Austworld SMK, accepted by CoGC, subject to acceptance for LCC, RCC & QUU, See Unitywater Sub-Metering Policy Technical Specification for UW.</p>
<p>Dual Check valves for Meter assemblies DN40 and Larger</p>	<p>Column C: Changed the manufacturer/supplier from Pentair to Pentair/Viadux. Column D: Added trade name VALVCHEQ. Column G: Changed response to "For Dual Reticulation Areas complying with the Council's Network Modifications, Extensions and Connections Policy". Column H: Changed response to "Use is subject to acceptance by SP". Column I: Changed response to "Use is subject to acceptance by SP".</p>
<p>Backflow prevention device (RPZ)</p>	<p>Column C: Changed the manufacturer/supplier from LW Gemmell to LWG Zurn and added trade name "Model 375" in Column D. Column C: Changed the manufacturer/supplier from Pentair to Pentair/Viadux.</p>
<p>Pressure limiting valves for Water Services (New Product)</p>	<p>Added a new product to the list with following details. Column A: Pressure Limiting Valve for water services Column B: No WSA-PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS 3688.</p>

	<p>2 - PN 16 3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4 - Watermark acceptance 5 – Set point 50m</p> <p>Column C: RMC NEFA</p> <p>Column D: N/A Column E: DN15 – DN50 Column F: Dezincification resistant material and comply with AS/NZS 3688 Stainless Steel seat. Not buried Column G: Not used – Private Plumbing facility Column H: Use is subject to acceptance by SP Column I: Use is subject to acceptance by SP Column J: Use is subject to acceptance by SP Column K: Left blank i.e. product accepted</p>
Category: Water Supply Miscellaneous Items	
Detectable Marker Tape	Column C: Changed the manufacturer/supplier from Gemmell to LWG Zurn.
Loose PE sleeving to DI pipe	Column C: Changed the manufacturer/supplier from Pentair to Viadux.
PVC - M conduits	Column C: Changed the manufacturer/supplier from Pentair to Viadux. Column H: Added the requirement for LCC that “LCC also accepts 100 dia uPVC PN9 Series 1”.
Security Fencing	Column E/F: Moved notation in Column E to Column F. Columns G, H & I: Changed drawing reference from 05-05-004 to 05-014.
Plastic Marker Posts	Column E: Added sizing details “1350 mm Long x 100 mm Wide x 4 mm Thick”
Kerb Markers (New Product)	<p>Added a new product with following details.</p> <p>Column A: Kerb Markers Column B: No WSA – PS Column C: All products meeting the specified requirements are accepted Column D: Column E: Brass at DN40 (cast-in) or SS at DN38 (cast-in or Pin set) with 22 high lettering Column F: As per SEQ-WAT-1300-1 Column G: left blank i.e. product accepted Column H: left blank i.e. product accepted Column I: left blank i.e. product accepted Column J: Only Brass markers accepted for conduit markers Column K: Only Brass markers accepted</p>

Category: Emergency Storage Chambers

Underground Storage Chamber	<p>Column B: Added "As per SEQ-SPS-1402-1"</p> <p>New product added:</p> <p>Column C: Chemstore Group</p> <p>Column D: Hydrosave</p> <p>Column E: From 1.2m to 3.5m dia and 2.5m to 20m length</p> <p>Column F: Fiberglass construction, As per SEQ-SPS-1402-1</p> <p>Column G: Use is subject to acceptance by SP</p> <p>Column H: Left blank as this product is accepted</p> <p>Column I: Use is subject to acceptance by SP</p> <p>Column J: Use is subject to acceptance by SP</p> <p>Column K: Use Accepted with condition of 30 Year Warranty & Providing access opening of larger size about 1200 mm opening</p> <p>New product added:</p> <p>Column C: Aquatec</p> <p>Column D: Aquatec Fiberglass Storage Vessels</p> <p>Column E: From 1m to 4m dia and 1m to 20 m length</p> <p>Column F: Fiberglass construction, As per SEQ-SPS-1402-1</p> <p>Column G: Left blank as this product is accepted</p> <p>Column H: Left blank as this product is accepted</p> <p>Column I: Use accepted – Warranty acceptable to SP to be provided.</p> <p>Column J: Left blank as this product is accepted</p> <p>Column K: Left blank as this product is accepted</p>
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SEQ Accepted Electrical IPAM List

Product Type	Change
Various	LCC accepted products list completely revised.
Flowmeters	<p>Split the cell into two separate rows:</p> <p>Flowmeters – Customer meter</p> <p>Flowmeters – Network meter</p> <p>and changed CoGC entry for Customer Meters to "ARAD RMC Octave Ultrasonic or Siemens Sitrans F.M. Mag 8000 - All meters shall comply with the Council's Network Modifications, Extensions and Connections Policy."</p>
Variable Speed Drives	Column F: Added "Xylem SmartRun" as accepted product for UW.

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SEQ Accepted Mechanical IPAM List

Products	Change
General	Products containing multiple manufacturers/suppliers split into individual rows.
PUMPS	
Submersible Sewage Pump Station/Lift Station Pumps	Changed Grundfos Pumps to "Not accepted by SP" for CoGC.
ACTUATOR/ SOLENOID VALVES	
Electrical Actuator	Added new product: Limitorque/Acrodyne – Limitorque MX and QX Series, accepted by CoGC & UW, subject to acceptance for LCC, RCC & QUU.
MISCELLANEOUS ITEMS	
Protective Internal Coating – other coating types	<p>Column C: Corrected "Peerless Emulsion Systems" to "Peerless Industrial Systems".</p> <p>Column D: Deleted "Heritage Green" as a colour option.</p> <p>Added new Manufacturer: ITWPF – Epirez 733UHB, accepted by CoGC, Subject to acceptance for LCC, RCC, QUU & UW.</p> <p>Added new Manufacturer: Fernco / JDP Applications - Ultracoat Epoxy Coating, accepted by CoGC, Subject to acceptance for LCC, RCC, QUU & UW.</p>
Covers	Added note for UW: "Only mist green colour is accepted".
Fall-arrest anchorage point	Column C: Changed Manufacturer/Supplier from "Aegis Safety Pty Ltd" to "Aegis Sales & Service".
Davit base	Column C: Changed Manufacturer/Supplier from "Aegis Safety Pty Ltd" to "Aegis Sales & Service".
Portable davit, complete with emergency retrieval self-retracting lifeline	Column C: Changed Manufacturer/Supplier from "Aegis Safety Pty Ltd" to "Aegis Sales & Service".