



Assets Planning and Delivery Group
Engineering

STRATEGIC PRODUCTS REGISTER

Conveyance, Mechanical and Process Systems

VERSION 3
REVISION 16

JUNE 2024

FOREWORD

The Strategic Products Register (also known as the Products and Equipment Register) is intended to enable Corporation staff, designers, constructors and land developers to identify proprietary infrastructure components and equipment that have been authorised for use in new water infrastructure assets to be acquired by (or transferred to) and operated by the Water Corporation.

The Register is not intended to address authorisation of products and materials on a project by project basis, where no performance evaluation, testing, field trialling nor business appraisal of substance has previously been undertaken. The absence of a product listing in the Register is not intended to be an absolute bar on its use in a particular project, provided that its compatibility with the project application, operational service risk profile and the terms of liability protection offered are acceptable to the project owner.

The issue of a formal product authorisation letter to a supplier and its listing in the Strategic Products Register, subject to Register review and publication schedules, signifies subjective compliance with Corporation product performance and supplier commercial requirements. A product brand listing in the Register does not diminish or waive the absolute responsibility of infrastructure project designers for applying the necessary skills, knowledge and experience to ensure that the product characteristics meet the performance requirements of each project.

Where appropriate, the Register includes references/links to product appraisal job records and Product Agreements that are associated with particular product listings.

Any interpretation of anything including conflict in project documents should be resolved by reference to the engineering and operational performance requirements specified for particular projects.

Head of Engineering

This document is prepared without the assumption of a duty of care by the Water Corporation. The document is not intended to be nor should it be relied on as a substitute for professional engineering design expertise or any other professional advice.

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REVISION STATUS

The revision status of this document is shown section by section below:

REVISION STATUS						
SECT.	VER./REV.	DATE	PAGES REVISED	REVISION DESCRIPTION (Section, Clause, Sub-Clause)	RVWD	APRV
1	3/0	30.01.17	6	Major changes	KR	KP
2	3/0	30.01.17	7	Major changes	KR	KP
3	3/0	30.01.17	7-8	Section deleted	KR	KP
4	3/0	30.01.17	9	Section deleted	KR	KP
5	3/0	30.01.17	8-11	Major changes	KR	KP
6	3/0	30.01.17	8-11	Major changes	KR	KP
7	3/0	30.01.17	92-98	Section deleted	KR	KP
8	3/0	30.01.17	92-98	Section deleted	KR	KP
9	3/0	30.01.17	92-98	Section deleted	KR	KP
10	3/0	30.01.17	92-98	Section deleted	KR	KP
Table A	3/0	05.01.17	12-43	<p>All suppliers' status and authorisation letter numbers updated.</p> <p>David Moss U-PVC DVW pipe systems removed.</p> <p>Aussie Horizontal Boring jacking pipe systems removed.</p> <p>Global Pipe Fibrestrong GRP pipe systems removed.</p> <p>Rocla precast products removed.</p> <p>Pentair Water PVC-U and PVC-M pipe systems removed.</p> <p>Georgiou Type 1 precast AC removed.</p> <p>Sewerage Management Services maintenance shaft removed.</p> <p>South East Water 760 x 760 mm easy lift cover removed.</p> <p>Icon-Septech solid top covers removed.</p> <p>Bullseye U-PVC jacking pipe systems added.</p> <p>Clover Superlit GRP jacking pipe systems added.</p> <p>RPC Flowtite GRP jacking pipe systems added.</p> <p>EJ Australia DI bolt down solid top covers for WWPS added.</p> <p>Dobbie DI solid top covers for maintenance shaft added.</p> <p>Acu-Tech Fusamatic electrofusion fittings added.</p> <p>Galvin Engineering DI fittings added.</p> <p>Dobbie Dico lightweight DI fittings added.</p> <p>Humes Precast DN1500 & DN1800 air/scour valve pits added.</p>	ML	KP

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SECT.	VER./REV.	DATE	PAGES REVISED	REVISION DESCRIPTION (Section, Clause, Sub-Clause)	RVWD	APRV
				Wormall Civil Precast Type 6 AC added. Wormall Civil Precast bubble base for Type 1 AC added. Sewer Maintenance Shaft PP maintenance shaft for DN150 & 225 sewers added. Georgiou Precast Type 10 WWPS and Type 6 AC added.		
Table A	3/1	22.03.18	14-58	All suppliers' status, authorisation letter numbers and expiry dates updated. Cascada DI covers and frames added: 2-part, 3-part, 4-part and maintenance shaft covers. Access chamber product limitations/outstanding appraisal tasks updated. Rehau maintenance shaft product added. Aymroo maintenance shaft product removed. Precast pump station components product limitations/outstanding appraisal tasks updated. Iplex PVC-O pressure pipe PN12 removed. All suppliers' PE pipe in PN12.5 removed. Acu-Tech and Enviropipes PE pressure pipe classes and sizes updated. PE pipe fittings sizes updated. Enviropipes fabricated PE fittings (scour tees and reducing tees) added. AVK Wang Supa-Gib and AVK 600 series unrestrained pipe couplings added. Georg Fischer WAGA couplings product range updated. Pipemakers PVC-U pressure pipe for vacuum systems updated	LT	KP
Table A	3/3	30.06.19	18-67	All suppliers' status, authorisation letter numbers and expiry dates reviewed and updated. Vinidex PVC DWV sandwich construction pipes added Global Pipe Fiberstrong GRP pipe (non-pressure applications) added Vinidex PVC DWV fittings DN225, DN300, DN375 added PVC jacking pipe trial periods reviewed and updated Empire Bosspipe GRP jacking pipe	LT	KP

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SECT.	VER./REV.	DATE	PAGES REVISED	REVISION DESCRIPTION (Section, Clause, Sub-Clause)	RVWD	APRV
				(non-pressure applications) added Holcim precast Type 1 access chamber system with Superbowl base added Smartstream maintenance shaft riser range extended, DN225 to DN375 Hygrade 2 part infill access cover added Holcim precast Type 10 wastewater pump station system added		
Table A	3/3	30.06.19	68-70	Removed Plasson Australia PN16 Plasson Electrofusion Fittings Added Plasson Australia PN16 Simona Injection Moulded Polyethylene Spigot Fittings Added Plasson Australia PN16 Plasson Injection Moulded PE Electrofusion Fittings Added AGRU Australia PN16 AGRU Injection Moulded Polyethylene Long Spigot Fittings and Couplers	RK	KP
Table A	3/4	20.01.20	25-65	Added Clover Pipelines Superlit Filament Wound GRP Non-pressure Pipe System Added Clover Pipelines Superlit Filament GRP Jacking Pipe System Added Clover Pipelines GRP Superlit Filament Wound ESJ Pressure Pipe Updated David Moss PVC-M Pressure Pipe Added Daemco Reinoversal Unrestrained Mechanical Couplings Added Derwent Variable Unrestrained Mechanical Couplings Added Viking Johnson UltraGrip Restrained Mechanical Couplings Added Victaulic Style 905 Restrained Mechanical Couplings for PE Pressure Pipe Added Derwent Uniclamp DI Flanged Offtake Clamps Added Haku DI Flanged Offtake Clamps Added David Moss PE100 Inverted Tee fittings Added Enviropipes PE100 Sweep Bend Pipe fittings Added Holman Industries Moulded and fabricated non-pressure PVC-U pipe fittings Added Cascada Type 1 Access Chamber Assembly	RK/KR	KP

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SECT.	VER./REV.	DATE	PAGES REVISED	REVISION DESCRIPTION (Section, Clause, Sub-Clause)	RVWD	APRV
				Removed Bullseye pvc Jacking Pipe Removed EJ access cover concrete surrounds (16-10 WWA) Removed EJ DI Maintenance Shaft Covers and Frame (16-06WWA) Removed Acu-Tech Fusimatic EF fittings (15-08 WA/WWA)		
Table A	3/11	12.08.22	24	Submission requirements updated	KR	KP
Table A	3/11	12.08.22	25-56	All suppliers' status, authorisation letter numbers and expiry dates reviewed and updated. Removed Pipemakers sandwich construction PVC DWV pipe Removed Global Pipe Fiberstrong GRP pipe Added Plastec PVC DWV fittings Added Australian Plastic Profile (Pipe King) PVC DWV fittings Removed Rob Carr boring pipe Wastewater access chamber items re-arranged to show assemblies where available from suppliers Added Cascada Type 1 access chamber Removed ACO access covers Added EJ access cover models under 20-79-WWA Added Iplex/Gatic concrete infill access covers Removed Iplex/Gatic DN450 maintenance shaft cover Added Smartstream two part access covers Wastewater pumping station items re-arranged to show assemblies where available from suppliers Wastewater air and scour valve pit items re-arranged to show assemblies where available from suppliers Removed ACO pump station covers Removed David Moss PVC-U pressure pipe Removed Iplex PVC-U pressure pipe Removed Pipemakers PVC-U (S1 and S2) and PVC-M pressure pipe Removed Iplex PE pressure pipe Renewed DI fittings from Vinidex, Iplex and Dobbie Dico for WW applications only Added Acu-tech PE sweep bend pipe fittings	LT	KP
Table A	3/13	01.09.23	26-61	Smarstream type 1 AC renewed	LT	KP

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SECT.	VER./REV.	DATE	PAGES REVISED	REVISION DESCRIPTION (Section, Clause, Sub-Clause)	RVWD	APRV
				Aymroo MS added Smartstream T40 PS added Smartstream T90 PS added Pipemakers DN100 DWV pipe added		
Table B	3/0	05.01.17	63	Added iPlex Milnes Tapping Bands	PV	KP
Table B	3/1	22.03.18	59-74	All suppliers' status and authorisation letter numbers updated. Pentair Water Solutions PVC-U, M pipe systems removed. Vinidex PE100 polyethylene pressure pipe system's pressure rating range updated. All suppliers' PE pipe in PN12.5 removed. MM Kembla Type A Straight Copper Tube size range increased. Global Pipe Fiberstrong ESJ GRP pipe removed. Authorisation of Steel Pipe System transferred from Pentair Water Solutions to Steel Mains. Galvin Engineering's PN16 lightweight range and PN25 traditional range added to DI fittings list. Derwent Industries PN16 lightweight, PN20 Socketed and PN35 traditional range added to DI Fittings list. Authorisation for Pentair Water Solutions DI fittings transferred to Viadux Water Network Solutions. Size ranges for Iplex/Crevet's PN16 and PN20 NIBF lightweight DI fittings range increased. Product limitations for Viadux Water Network Solutions DI Fittings PN16, PN35 lightweight ranges, and Dobbie Dico DI fittings traditional range amended. Stockbrands Complete Copper Riser Assembly re-classified from Copper Alloy Pipe Fittings list to Ancillary tools list. Stockbrands 3-10 Service Manifold Assembly re-classified from PE & PP Pipe Fittings list to Ancillary tools list. Georg Fischer Alprene Compression fittings removed. Authorisation for Philmac 3G Metric Fittings given to Philmac and Vinidex.	JB	JD

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SECT.	VER./REV.	DATE	PAGES REVISED	REVISION DESCRIPTION (Section, Clause, Sub-Clause)	RVWD	APRV
				<p>Authorisation for Plasson Metric Compression fittings and Plasson EF fittings transferred from Vinidex to Plasson Australia.</p> <p>Georg Fischer ELGEF EF Fittings size range for Straight Couplings, elbows, caps and reducers increased.</p> <p>Authorisation for Friatec EF Fittings transferred from Philmac to Vinidex and size range extended.</p> <p>Acu-tech Piping System's Fusamatic EF fittings added.</p> <p>Authorisation for all PE electrofusion tees removed for water products.</p> <p>Authorisation for Wang Vari-Gib Unrestrained Pipe Couplings transferred from Pentair Water Solutions to AVK Wang and Viadux Water Network Solutions.</p> <p>AVK Supa-Gib Unrestrained Pipe Couplings added.</p> <p>Authorisation of AVK 600 Series Unrestrained Couplings transferred from AVK to AVK Wang, Iplex and Reece Plumbing and product limitations modified.</p> <p>AVK 600 Series Stepped Couplings added.</p> <p>Product authorisation for Georg Fischer Multi Joint Pipe Couplings amended and size range reduced.</p> <p>Milnes Gunmetal Tapping Bands size range increased.</p> <p>Stockbrands Tapping Band assembly with built in tee and cutter removed.</p> <p>Plasson Tapping Band assembly with built in tee and cutter removed.</p> <p>Philmac Viking Johnson MaxiFit and AquaFast Pipe Couplings removed.</p> <p>James Walker Teekay Axiflex Pipe Couplings removed.</p> <p>Authorisation for Wang Vari-tap and Rigi-tap tapping bands transferred from Pentair Water Solutions to AVK Wang and Viadux Water Network Solutions.</p> <p>Authorisation for Pentair Water Solutions sluice valve cover, recycled plastics frame, DN300 PVC Shroud pipe and base plate assembly transferred to Viadux Water Network Solutions.</p>		

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				Maylands Cement RC Hydrant service frame under-box removed. HR Products Class B lightweight hydrant cover and frame assembly removed. The Box Specialist Timber meter and stop tap service frame under-box removed. Daemco Valve Extension Spindle added. Ancillary Tools list formulated as a new list category. Security plug and spanner list category removed and products moved under Ancillary Tools list category.		
Table B	3/3	30.06.19	86-91	Removed Georg Fischer PN16 ELGEF Electrofusion Fittings Removed Vinidex PN16 Friatec Electrofusion Fittings Updated Plasson Australia PN16 Plasson Electrofusion Fittings Removed Acu-Tech Piping Systems PN16 Fusamatic Electrofusion Fittings Added Plasson Australia PN16 Simona Injection Moulded Polyethylene Spigot Fittings Added AGRU Australia PN16 AGRU Injection Moulded Polyethylene Long Spigot Fittings and Couplers Added David Moss PN16 Haku Ductile Iron Mechanical Tapping Bands for Series 1 PE Pipes Removed Pipemakers uPVC and mPVC pipe (trials)	RK	AA
Table B	3/4	20.01.20	62-80	Updated Stockbrands Tapping Band Sizes Added Plasson Australia PN25 Injection Moulded Polyethylene (PE) Electrofusion Fittings Added AGRU Australia PN25 Injection Moulded Polyethylene (PE) Electrofusion Fittings Updated David Moss PVC-M Pressure Pipe Updated Enviropipes PE100 Pressure Pipe Updated David Moss PE100 Pressure Pipe Updated Acu-Tech PE100 Pressure Pipe	RK/ MW	AA

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				Added Clover Pipelines GRP Superlit Filament Wound ESJ Pressure Pipe Added Daemco Reiniversal Unrestrained Mechanical Couplings Added Derwent Variable Unrestrained Mechanical Couplings Added Viking Johnson UltraGrip Restrained Mechanical Couplings Added Derwent Uniclamp DI Flanged Offtake Clamps Added Haku DI Flanged Offtake Clamps Added Historical DS63 CI Cover and Frames supplied by Iplex Added Historical DS63 CI Cover and Frames supplied by Dobbie Dico Added Historical DS63 CI Cover and Frames supplied by Galvin Engineering Added Historical DS63 CI Cover and Frames supplied by Viadux		
Table B	3/6	04.09.20	81 80 75 76 75 80 67-69	Added additional sizes for Hygrade Haku Flanged Offtakes Removed Hygrade Haku Threaded Offtake Removed Plasson Stub Flanges Removed AGRU Stub Flanges Updated PN16 Philmac 3G Metric Compression Fittings Added additional sizes for Derwent Unrestrained Mechanical Couplings Amended PE pipe requirements	MW	AA
Table B	3/13	01.09.23	64 65 65 67-68 73	PN12 U PVC and coloured purple removed PN12 M PVC and coloured purple removed O PVC removed Coloured purple removed DI pipe fittings by Viadux water network solutions changed to be Compatible with any Series 2 PVC and GRP pipes. Previously it was only to be used with authorised Pentair water solutions.	JA	AA

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Table B	3/13	30.01.24	67	David Moss PE100 pipes no longer accepted for water conveyance projects where: <ul style="list-style-type: none"> • Pipe is manufactured after 31 Jan 2024; or • projects has a startup after 31 March 2024; or • project is a Water Corporation Capital projects with tenders closing after 31 Jan 2024 	JA	AA
Table B	3/16	18.06.24	73,74 76,77	D25 and DN32 polypropylene compression fittings have been removed Brass Connectors ≤ DN32 for PE Pipes added	JA	AA
Table C	3/0	05.01.17	64-86	Added a cautionary note on use of Maric valves Change supplier name for Valmatic Valves under SPS223 to HMA Flow & Industrial Removed Keystone F626-21 DN700-DN900 Butterfly Valves Listed under SPS 261 Removed Sureflow Figure 400 Metal Seated Gate Valves listed under SPS 271 Removed Hydro-Titan pumps listed under SPS 500 and SPS501 Removed TKL(MVE) pumps listed end suction back-pull out pumps Supplier Pentair Flow Control Pacific Pty Ltd renamed as Pentair Water Australia Removed Goulds AC and LNN/LNV pumps listed under SPS 515. Revised model numbers and supplier details for Mono pumps listed under SPS 525 Added XXC, Swagelok & Tzng Trong Stainless steel ball Valves under SPS 252	GP	KP
Table C	3/1	02.03.18		Added valve category and panel prequalified suppliers for supply of valves in accordance with Valves	GP	SE

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				<p>Panel list provided by Procurement for internal use.</p> <p>Transferred authorisations of Crevet Pipelines Pty Ltd for supply of valves transferred to Iplex Pipelines Aus Pty Ltd.</p> <p>Renamed valve supplier Pentair Sales Australia Pty Ltd as Emerson Automation Solutions.</p> <p>Renamed valve supplier Viadux Water Network Solutions as Viadux Pty Ltd.</p> <p>Added model names Fox 3, Fox 3-RFP, Lynx 3 & Lynx 3-RFP to specifying CSA Fox air valve varieties.</p> <p>Added Dorot air valves for water under SPS 200.</p> <p>Removed Ban Chang 4B Copper alloy gate valves DN15-DN20 (Screwed) listed under SPS 220.</p> <p>Removed Pegler Beacon Check valves listed under SPS 226.</p> <p>Removed HVES Valves listed under SPS 241 and Cone Dispersion Valves</p> <p>Added Fluid Control Sales & Installations Pty Ltd as WA distributor for Mack Valves Pty Ltd.</p> <p>Renamed Metval Consolidated Pty Ltd as Metval Engineering Sales as listed in Valve Panel list.</p> <p>Renamed Perryco Marketing Pty Ltd as Prochem Pipeline Products.</p> <p>Added a note listing GF, Burkett & Valpes actuators as acceptable for use with PVC ball valves.</p> <p>Removed CIMBERIO C8371 & C8378 (DN20 & DN25 M&CF) Ball valves listed under SPS 251.</p> <p>Removed Rubinettire Bresciane Bonomi (VIR) J-J360 Copper alloy ball valves listed under SPS 252.</p> <p>Removed CIMBERIO C8413 DN20 F&F Right angle meter ball valves listed under SPS 254.</p> <p>Removed Ban Chang J-59M (DN10-100 Screw Conn.) and J-60M DN100 flanged conn) gate valves listed under SPS 255.</p> <p>Added Keystone GRW (D12E AD FBE) under SPS 260.</p> <p>Cautionary note added requesting to check the end of line capability of the lugged butterfly valves before selection as they are under review.</p>		

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				<p>Removed Sureflow Figure 400 Metal Seated Gate Valves listed under SPS 271.</p> <p>Changed model /Series details of AVK Resilient Seated Gate Valves. 570/92 – Gear box mount option with ISO F10 for DN80-DN150 and ISO F14 flange (dual Drilled to also suit DN200-DN400) 570/98 – Hand wheel Option Series 570/90 and 570/98 will supersede existing Series 57/90 & 57/98 for size range DN80 – DN300 and Series 57/40 and 57/48 in size range DN375 –DN400. Series 570/92 supersedes Series 57/42 & 57/43}.</p> <p>Removed Sureflow Auslite DN100-DN150 valves listed under SPS 272.</p> <p>Revised the Auslite II DN100-300 listed under SPS 272 as Auslite III DN100-DN400.</p> <p>Size range for Sureflow Figure 500 to DN450-DN600.</p> <p>Added AVFI PN16 DN80-DN600 Double Flanged RSGVs and DAEMCO PN16 DN80-DN300 DF RSGVs under SPS 272.</p> <p>Added new table listing authorised valves & fittings for Instrumentation & Control (Tubing/Piping) Systems.</p> <p>Added KSB MCPK End suction pumps under SPS 500.</p> <p>Renamed AHLSTAR listed under SPS 500 as AHLSTAR –LC and added AHLSTAR–CC under SPS 501 to include both long & close coupled pump models.</p> <p>Removed Hydro-Titan ISO end suction pumps listed under SPS 500.</p> <p>Added Torishima model CDM ASC Pumps under SPS 515.</p> <p>“EMU” pumps listed under SPS503 & SPS 507 are renamed as Wilo-EMU pumps.</p> <p>Added Wellmaster & Flexibore flexible riser pipes, fittings and accessories added under SPS 507.</p> <p>Changed supplier name for Hidrostral pre-frontal screw sewage pumps to Hidrostral Australia Pty Ltd.</p> <p>Added Hidrostral submersible sewage pumps for trial under SPS 503.</p>		

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				Added ROTO PC pumps authorised under SPS 525 Changed supplier for Rietschle Vacuum pumps and compressors to Garden Denver Industries Pty Ltd. Noted added indicating the availability of SS enclosures with Champion compressors for out-door installation. Added Won Chang rotary vacuum pumps authorised for trial.		
Table C	3/2	14.11.18	All	Sub Headings added for all tables listed under table C Removed Supplier panel pre-qualified column Asterix added to highlight suppliers who are not commercially pre-qualified. Pressure rating of air valves listed under SPS 200 Added Karon RSCC PN16 DN80-DN375 Check valves authorised for trialling under SPS 223 Model numbers of Noreva Check Valves listed under SPS230 changed to NK and NB Added Zetco 4494 DN15-DN50 SS Ball valves authorised for use under SPS 252 Revised listing of Conti-Rubintire (Zetco Series 1706) gate valves extend the range to DN15-DN100 Changed supplier for Stafsjo knife valves listed under SPS 259 to Ebro Armaturen Pacific Pty Ltd Removed lugged butterfly valves (Bray Series 31, Value VF-733, Ebro Z014A and AVK Series 76) that does not meet the EOL service requirements as per AS4795.1 Changed supplier for AVK butterfly valves listed under SPS 260 & SPS 261 to Iplex Pipelines Australia Pty Ltd. Changed supplier for Wouter Witzel butterfly valves listed under SPS 260 & SPS 261 to Flocontrol Valves & Automation. Changed supplier for Ebro butterfly valves listed under SPS 260 & SPS 261 to Ebro Armaturen Pacific Pty Ltd Added Ebro Armaturen Pacific Pty Ltd as potential supplier for Ozkan butterfly valves listed under SPS 262	GP	SE

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				Removed HVES Butterfly Valves listed under SPS 263 Removed listing of Dobbie Dico SV Series gate valves listed under SPS 272 Added Dobbie PN16 DN100-DN250 (VGR16FV1) DF gate valves authorised under SPS 272 Added model number VGRFB1 to Dobbie/Betta PN16 DN100-DN400 DF gate valves listed under SPS 272 Added Dobbie PN16 DN100-DN250 (VGR16SV1) DS gate valves authorised under SPS 272 Added Dobbie/Betta PN16 DN100-DN400 DS gate valves (VGR16SB1) under SPS 272 Removed Dobbie/Betta PN16 DN100-DN400 double spigotted gate valves under SPS 272 Corrected pressure rating of AVK 57 Series RSGV to PN25 Changed supplier for Netzsch PC pumps to Netzsch Australia Pty Ltd Added anew table listing chemical transfer pumps with magnetic couplings		
Table C	3/3	19.03.20	All	Removed Plasson C-Valve listed under SPS241 for internal use as no-longer available in Australia. Changed Supplier for Ozkan high performance butterfly valves listed under SPS 262 to Flocontrol only.	MB	
Table C	3/7 3/7	08.10.20 25.03.21	All	Added 250mm Flexibore 250 listed under Flexible Riser Pipe Fittings & Accessories Added Kalpumps Kalflex under Flexible Riser Pipe Fittings & Accessories Added Cast Flow IIIIE DN50-300 Dual Plate Check Valves for trial under SPS 226 Added HIWA RSFC Swing Check Valve DN80-250 for trial under SPS 223 Added ARI S-015 Air Valve under SPS 200. Added table listing SPS215 Backflow Prevention Devices Added ARI RP-500 PN10 for trial under SPS 215	BC/GP	SE

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				Added Austworld GV15-GV100 Gate Valve under SPS 255 Added Cla-Val X43H DN25-600 Strainer under Miscellaneous Mechanical Added Steelmains DN100-1200 Compact Dismantling Joint for trial Authorisation for Clyde Pumps Uniglide-e transferred from SPX Flow Technology Australia to Celeros Flow Technologies Added Bermad C50-N, C50-J, C50-G and C50-C PN16 under SPS 201 for trial Added KSB UPA Submersible Electric Bore Pump under SPS 507 Update Chemical Dosing Pump Removed Value Valves CV-123A Dual Plate Check Valve Added minimum casing diameter note for Flexible Riser Pipe Fittings & Accessories Changed supplier for all Erhard products from Emerson Automation Solutions to Ebro Armaturen Pacific Pty Ltd. Changed supplier for Wilo-EMU Submersible bore pumps from AGRU Australia to Wilo Australia Pty Ltd Remove Cat, Dingo and Panther models of rotary lobe blowers supplied by Busch as no longer available Dobbie Dico listed as manufacturer for VGR16FB1 and VGR16SB1 Resilient Seated Gate Valves under SPS 272 Added Betta VGFF, VGSS, VGPP and VGSF Resilient Seated Gate Valves under SPS 272 Removed Godwin Dual Plate Check Valve from SPS226 Added KSB Dmax submersible sewage pump for trial under SPS503 Revision of Table C structure and product performance reviews Removed Won Chang WOVP1500 Rotary Vane Vacuum Pump Added DIMAX 3250R, 3050R, 3950R and 3252R Resilient Seated Gate Valves Under SPS 272 Added Bermad C30-P under SPS 200		

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				<p>Added Caprari bore pump models E6SX, E8PX, E10PX & E12PX under SPS 507</p> <p>Added AVK Dismantling Joints under Miscellaneous items</p> <p>Removed AVK Swing Check Valves listed under SPS 223</p> <p>Extended the range of Challenger Wafer & Lugged Butterfly Valves to include DN50-DN500 sizes</p> <p>Added DAEMCO PN16 DN100 & DN150 PN16 Resilient Seated Gate Valves with double spigot and double socket ends under SPS 272</p> <p>New Table added under Sub-heading of Drywell Sewage or WRAS Pumps</p> <p>Added KSB Sewtec pumps under Drywell Sewage Pumps</p> <p>Changed supplier for Wallace & Tiernan listed under Chemical Dosing pumps from Hydramet Pty Ltd to Trility.</p> <p>Notes added under Diaphragm Pressure Tanks to specify requirements for Design Registration and documentation.</p> <p>Changed supplier for GF Valves from Iplex Pipelines Aus Pty Ltd to Viadux Pty Ltd.</p> <p>Removed Turbomaster Bore pumps listed under SPS 507 as they are no longer available</p> <p>Added following dismantling Joints under Miscellaneous items table;</p> <ul style="list-style-type: none"> • AVFI Model AFD10 • Pipemate Type B <p>Changed supplier for Pleuger Bore pumps under SPS 507 from Flowserve Pump Division Australia to Pump Power Australia Pty Ltd.</p> <p>Added Stafsjo WB14-E knife gate valves DN50-DN600 under SPS 259</p> <p>Added AVFI KGV-UHD-WCSS DN50-DN250 PN10 & PN7 DN300-DN450 KGVs under SPS 259.</p> <p>Changed supplier for Bornemann PC Pumps under SPS 525 from Kelair Pumps Australia Pty Ltd to ITT Blakers</p> <p>High Performance Butterfly Valves with Ductile Iron Disc – Vitreous Enamel internal coating on Disc & body listed under SPS 262 removed as they are no longer available</p>		

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				GWS Pressurised water Storage tank models MTPA 35L-PN10, MTPB 35L-PN10 and MTUB 24L-PN25 added under Diaphragm Pressure Tanks		
Table C	3/9	20.06.22	93-137	Added hyperlinks to model datasheets for all products under ‘Mechanical Products – Valves’ where applicable Corrected model names for CSA air valves supplied by Bermad under SPS 200 Created new table with heading ‘Air Valves for Seawater’ Moved Vent Master PXD listed under SPS 201 from Air Valves for Sewage to Air Valves for Seawater Removed Backflow Prevention Devices table Val-Matic Soft Duro Disc check valve (SPS 223) review date extended to June 2023 and specified low pressure use only Material preference specified for wafer Duo-Chek II listed under SPS 226 Pressure relief valve & axial control valve table split into two: ‘Pressure Relief Valve – Pressure Vessel Applications’, and ‘Inline (Axial) Control Valves’ Update size ranges for globe valves listed under SPS 240 Removed trial highlight and review date for VAG control valve under SPS 241, and specified for scour applications only Extended review date to June 2022 for Erhard axial control valve under SPS 241 Added note for CLA-VAL and Singer models under SPS 240 to assess performance prior to use Added notes for Airvac Vacuum Interface Valves Zetco Series 1328 ball valves under SPS 251 taken off trial basis Added Austworld Logi meter ball valves under SPS 251, 252, and 254 Removed review date from Logi GV15-GV100 under SPS 255 Added Orbinox BT knife gate valve under SPS 259, pending full product appraisal VAAS knife gate valves under SPS 259 highlighted for supplier reappraisal	TC	SE

REVISION STATUS						
SECT.	VER./REV.	DATE	PAGES REVISED	REVISION DESCRIPTION (Section, Clause, Sub-Clause)	RVWD	APRV
				Added DIMAX 2302 and 2502 Wafer and Lugged butterfly valves under SPS 260 following product appraisal AFFCO S460 valve added under SPS 261 with notes (product verification and drawing appraisal required) PN 25 seal on body butterfly valve table separated from PN 16 and PN 21 tables Note added to SPS 261 table detailing flange drilling for PN 21 valves Erhard EAK valve under SPS 262 highlight changed to reflect trial basis Note about valve design and fluid velocity added to Erhard ROCO Wave and VAG valves under SPS 262 Make name for all products supplied by Dobbie Dico Meter Co Pty Ltd changed from 'Dobbie Dico' to 'Dobbie' Dobbie metal seated gate valve model names updated, and included integral bypass models Corrected model names for resilient seated gate valves under SPS 272 Extended size range for DIMAX 3250R valve under SPS 272 up to DN 600 Added link to compatible pipework spreadsheet for S-Gate valve under SPS 272 Added installation and application details for AVK and DeZurik plug valves Delisted one of the Dobbie hydrants under SPS 292, and corrected model names for hydrants Added Hoke and Gyrolock makes to 'Valves & Fittings for Instrumentation' table, with application requirements included Added note on limitations to CRN-E pump under SPS 506 Added Torishima axially split casing pump supplied by AFH under SPS 515, subject to full product appraisal. Added note in table for SPS 515 products stating that additional suppliers and products are to be investigated Added reference to material data sheets for standard arrangement of Hidrostral pumps under SPS 503		

REVISION STATUS						
SECT.	VER./REV.	DATE	PAGES REVISED	REVISION DESCRIPTION (Section, Clause, Sub-Clause)	RVWD	APRV
				Changed title of 'Drywell Sewage or WRAS Pumps' table to 'Non-Immersible Sewage or Sludge Pumps' Added Hidrostral pumps to 'Non-Immersible Sewage or Sludge Pumps' table Extended review date to June 2023 for Boerger rotary displacement pumps supplied by Dynapumps Added note 'table needs to be reviewed and updated' under tables for Vacuum Pumps, Compressors, and Blower		
Table C	3/9	06.07.22	122	Lowara supplier updated	DB	SE
Table C	3/10	03.08.22	92,93,95,107,114,135	Minor update - Asterisk removed against all references to AVFI, trial date for AVFI swing check valve review date extended to 2024 and comment added (page 95)	DB	SE
Table C	3/12	07.10.22	88, 94	Removed note against Flovac that was supposed to be against Airvac regarding performance issues. Added the note to Airvac Removed comments against Bray Controls Pty Ltd regarding lack of response and requiring resubmission.	DB	SE
Table C	3/13	30.1.22	100-103, 105, 110	Removed AVK Series 55 due to discontinuation in Australia. Changed AVK 570 series size range. AVK 570/60 range changed to DN80 – DN300. Updated SPS 272 table. Removed highlight denoting trial use only from KSB and Caprari submersible bore pumps. Added a note to the Grundfos SP submersible pumps mentioning the Water Corporation requires the 'N' version, and that Grundfos does not produce a 316SS motor in some sizes so a 904L motor is to be used for these sizes. Added CERAM CP coating on a trial basis for Wilo submersible bore pumps, for known iron bacteria bores. Name changes to Wilo submersible pumps to reflect their current product range. Added contact details for S-Gate Valve. Added a comment to Sulzer submersible sewerage pumps linking to performance reports.	DB	SE

REVISION STATUS						
SECT.	VER./REV.	DATE	PAGES REVISED	REVISION DESCRIPTION (Section, Clause, Sub-Clause)	RVWD	APRV
Table C	3/12	16/03/2023	113,114	Added the model name Corrected a spelling error	SS	SE
Table C	3/12	16/03/2023	122	Added Bermad 70F strainer	SS	SE
Table C	3/13	28/04/2023	96	Removed knife gate valve VAAS (or Bray) 987L since the supplier informed the valve is no longer manufactured.	SS	SE
Table C	3/13	8/05/2023	89	Removed asterix from the supplier Watercon for Airvac Vacuum interface valves	SS	SE
Table C	3/13	18/05/2023	96	Changed the supplier's name for Orbinox model BT KGV as AVK Australia	SS	SE
Table C	3/13	18/05/2023	97	Changed the supplier's name for AVK series 76, DN50-DN300 butterfly valves from Iplex Pipelines Aus Pty Ltd to AVK Australia	SS	SE
Table C	3/13	18/05/2023	97	Changed the supplier's name for AVK series 76, DN50-DN500 butterfly valves from Iplex Pipelines Aus Pty Ltd to AVK Australia	SS	SE
Table C	3/13	18/05/2023	98	Changed the supplier's name for Wouter Witzel, from AVK Flow Control to AVK Australia	SS	SE
Table C	3/13	18/05/2023	108	Changed the supplier's name for AVK plug valves, DN65-DN300 from AVK Flow Control to AVK Australia	SS	SE
Table C	3/13	19/05/2023	103	Changed the size from DN100-DN200 to DN50-DN300 for Havle E3 resilient seated gate valves PN16	SS	SE
Table C	3/13	25/08/2023	115-116	Added a list of standard isolating valves and non-return valves under the section heading 'Valves for Booster Pump Stations' (Pumps products have moved to Page 44)	MG	SE
Table C	3/13	31/08/2023	94	Vacuum Isolation Valves Added. Ozvalves included based on NWR feedback	SE	SE
Table C	3/13	07/09/20	126	Vacuum Pumps, changed notes	SE	SE
All	3/13	07/09/2023	All	Changed Subtitle and Header	SE	SE
Table C	3/13	26/10/2023	83, 100, 101, 105, 107, 108,109,111	Supplier AVK added under all references to Iplex Pipelines Australia Pty Ltd and AVK company name corrected to AVK Australia	SE	SE
Table C	03/15	13/02/2024	89, 91	Watercon replaced Fluid Control as the distributor for Mack Valves	SE	SE
Table C	03/15	13/02/2024	118	Added Maze Industrial Oroflex Well under Flexible Riser Pipe Fittings & Accessories	BG	SE

REVISION STATUS						
SECT.	VER./REV.	DATE	PAGES REVISED	REVISION DESCRIPTION (Section, Clause, Sub-Clause)	RVWD	APRV
Table C	03/15	13/02/2024	128	Pressure vessels type and sizes clarification	BG	SE
Table C	03/15	13/02/2024	86	Added Pressure Relief Valves – Water Conveyance Applications section and included Bermad CSA VCRA fast acting pressure relief valves into it	BG	SE
Table C	03/15	13/02/2024	All	Updated and provided links to Nexus for most products in Table C	BG	SE
Table C	03/15	13/02/2024	122	Smartaflow C-type hypo-chlorinator pump from AQ2 has been removed	BG	SE
Table C	03/16	14/06/2024	All	Changed Sulzer Pumps (ANZ) Pty Ltd to Sulzer Australia Pty Ltd.	BG	SE
Table C	03/16	14/06/2024	97	Removed Review Date and Product Limitation for Vacuum Isolation Valve AV3 from Airvac.	BG	SE
Table C	03/16	14/06/2024	98	Added Hayward in Valves & Fittings for Chemical Dosing Systems section	BG	SE
Table C	03/16	14/06/2024	109	Added John Valve DN600 PN16	BG	SE
Table C	03/16	14/06/2024	132	Added Grundfos as supplier and Grundfos pressure vessels models	BG	SE
Table D	3/4	16.07.20	123 & 124	Table D added	NH	KP
Table D	3/8	20.01.22	131 onwards	Chlorination – (Rows 1-3)Supplier updated from Hydramet to Evoqua Chemical – 50% Sodium Hydroxide Valves new section added Chemical – 98% Sulphuric Acid Valves new section added Chemical – Plastic Lined Metallic Piping Systems new section added	NH	NH

STRATEGIC PRODUCTS REGISTER

Water, Wastewater and Drainage Systems

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1 Scope

The Strategic Product Register - also known as the Products and Equipment Register - lists proprietary infrastructure components (products and equipment) that have been appraised and authorised for use in new Corporation water supply, wastewater and drainage infrastructure.

Product appraisal for authorisation purposes requires technical and commercial appraisal of product compliance with an acceptable performance specification and its whole of life business value in common infrastructure applications.

The appraisal process involves a risk assessment of the circumstances and logistics of the product supply chain and product supplier capacity to provide technical, spares and stock support in WA and of the product and public liability insurance coverage provided by the supplier to mitigate consequential Corporation business liability. Product authorisation is, typically, subject to defined usage constraints in relation to particular infrastructure applications, locations, environmental conditions, usage volumes and the availability/quality of product service performance information.

Products are authorised and listed for specific usage categories, including “**General Authorisation**”, “**Conditional Authorisation**”, “**Restricted Trial Authorisation**” and “**Authorisation Expiry Imminent**” as defined herein. Guidance on product registration submission and supporting information requirements is available in the “**Supplier Submission Guidelines**” (Corporation document reference #9818098) and may be forwarded to product suppliers on request.

Where available, the Register contains references to trial custodians, product/equipment field trial performance specifications and trial performance review dates. Definitive product field performance feedback is required for the purposes of trial performance records, as a prerequisite to authorisation.

The Register also lists a limited number of fit for purpose infrastructure components that are deemed strategic from an operational safety and risk perspective. Many infrastructure products available in the marketplace are not registered because of their non-strategic (low contribution to asset failure risk) nature, low volume usage or dependency on project specific performance requirements.

As Register review/update schedule is typically at publication intervals of two years, there can be a significant time lag between product authorisation and its publication in the Register. Users and suppliers should accordingly note that the formal authorisation letter issued to a particular supplier may be presented to product purchasers as the definitive evidence of authorisation, pending publication of a scheduled Register update.

Where an, as yet, unauthorised unevaluated product may be considered a good business value fit for a particular project, its design and longevity characteristics should be assessed and validated for compliance with a product performance standard/specification that is acceptable to the Corporation, as a precondition to its acceptance on that project.

Authorised strategic product and equipment items are listed in this Register as follows:

- (a) Wastewater Conveyance Products – Table A
- (b) Water Conveyance Products – Table B;
- (c) Mechanical Products – Table C.
- (d) Process Products – Table D

NOTE: Only the principal Supplier – the Supplier who submitted the product for authorisation - will be listed in the Register. This does not preclude the use of a listed (authorised) product by another supplier, provided that the terms of supply have been agreed by the Corporation e.g. in a Product Agreement or other acceptable form of agreement document or by means of an alternative documented commercial arrangement agreed between the Corporation and the Supplier.

2 Purpose

The purpose of the Strategic Products Register is to:

- (a) List proprietary infrastructure product and equipment items of a strategic nature that have been appropriately evaluated and authorised prior to their selection for use in new water infrastructure; and
- (b) Assure selection of products and equipment for Corporation infrastructure on the basis of best lifecycle value, sustainability and service safety for the intended applications.

3 Product Appraisal Process

Minimum Corporation performance requirements for many strategic infrastructure components (i.e. products and equipment) have been documented in Strategic Product Specifications (SPS). In some cases, (e.g. mechanical products), specific performance requirements and operational parameters are referenced in the Project Specific Requirements Appendix of a relevant SPS.

Performance and compliance requirements for a product or equipment item, for which a specific Corporation specification has not been published, should be documented by agreement between the supplier and the Corporation.

Listing of Products and equipment in the Register requires product fitness for purpose, product supplier and supply chain to be evaluated in terms of:

- Overall contribution to Corporation business need and lifecycle value;
- Compatibility with existing infrastructure configuration, spares inventory and operational and maintenance equipment configuration and processes;
- Product design and installation performance characteristics, business and environmental sustainability, safety and life expectancy in service;
- Supplier and supply chain risk and liability potential, technical capability and spares support (in WA);
- Insurance coverage of Corporation liability for the consequences of product failure;

The process requires participation in the WSAA national product appraisal scheme and provides for due recognition of product performance credentials established by WSAA appraisal reports.

Asset designers and constructors shall respectively be responsible for selecting and installing products and materials that comply with product performance and longevity requirements for particular infrastructure project applications and environments.

NOTE: A suitably qualified professional design engineer should select, design and specify products and materials for Corporation infrastructure applications by applying appropriate engineering and risk assessment skills, knowledge and experience.

3.1 Product and Equipment Trials

Products and equipment may be subject to monitored field trialling to evaluate:

- Adequacy of the modelled/calculated design and installation characteristics intended to demonstrate acceptable field performance outcomes on selected infrastructure projects;
- Product compatibility with operational and maintenance equipment and practices under live service conditions (in consultation with Corporation operations managers);
- Ease/economy of product transport, storage, handling, assembly and installation on a representative number of infrastructure projects, ,

Where monitored field trialling is undertaken, a suitably qualified engineering officer should be engaged to monitor, record and report product functional, service and safety performance outcomes and the adequacy of installation services and installer training provided by the supplier.

Subject to the availability of an experienced trial supervision officer and field trial funding resources, the Corporation will endeavour to support live service or trials to evaluate product field performance. A Corporation commitment to resource and manage a field trial operation will require prior (timely) negotiation and agreement between the supplier and the Corporation.

3.2 Categories of Authorised Products

The authorisation status categories, in which appraised products and equipment are listed, in accordance with usage limitations and constraints, are as described below.

General Authorisation

A product is registered in this category on the basis of acceptable performance in service during the authorisation period, subject to provision, at the outset, of:

- Independent validation and assurance of product engineering and certification;
- Indemnity of the Corporation from claims that may arise due to poor product performance during the authorisation period by means of an appropriate level of public and product liability insurance cover;

The authorisation validity period will typically, not exceed five (5) years. Authorisation renewal by the Corporation will be subject to re-confirmation of product scope and continuity of product engineering/certification assurance and liability insurance cover by the product supplier.

Conditional Authorisation

A product, with little or no supplier or service performance history or for which appropriate performance compliance documentation has not been submitted, is registered in this category, subject to:

- Provision of independent validation and assurance of product engineering and certification and any other performance compliance credentials that may be identified, within an interim period of conditional authorisation (typically < 3 years) agreed by the Corporation;
- Indemnity of the Corporation from claims that may arise due to poor product performance during the authorisation period by means of an appropriate level of public and product liability insurance cover;

Conversion of a conditional to general authorisation status and validity period (typically \leq five years) will require full compliance with the interim authorisation conditions and satisfactory product service performance during the entire authorisation period.

Restricted Trial Authorisation

A product may, in the absence of any documented appraisal or Corporation service performance history, be registered in this category for restricted infrastructure project use, subject to:

- Provision of independent validation and assurance of (product) system concept, design and installation engineering including performance modelling, of an acceptable technical quality;
- Provision of documented field proof/demonstration of system concept, design and installation engineering within a defined interim trial period (typically < 3 years) by means of supervised trial installation on an agreed number of suitable Corporation infrastructure projects;
- Indemnity of the Corporation from claims that may arise due to poor product performance during the authorisation period by means of an appropriate level of public and product liability insurance cover.

Conversion of a restricted trial to general authorisation status and validity period (typically < five years) will require full compliance with the restricted trial authorisation requirements including acceptable system service performance reporting by the supplier during the entire authorisation period.

Authorisation Expiry Imminent

A number of registered authorisations have been **highlighted in blue** where expiry is imminent. **Blue** highlighted product authorisations are at imminent risk of withdrawal in the absence of urgent action by the supplier to submit the newly nominated product range for re-authorisation

together with evidence of continued market usage and product quality feedback to support the submission.

NOTES

1. Products and equipment should be evaluated, risk assessed, selected, designed and specified for particular infrastructure applications on a project by project basis by a suitably qualified project design engineer. The Register may then be perused for proprietary product listings that match the designer's selection.
2. Infrastructure project designers and users should consider - in the case of "Conditional" and "Restricted Trial" authorisation categories - the lack of in-service performance history and - in the case of a "Restricted Trial" authorisation - the absence of a documented engineering appraisal. Accordingly, a project level risk assessment should be undertaken, prior to selecting or specifying anything in the Register for application to a particular project.

4 Submissions for Product Authorisation

The "SUBMISSION REQUIREMENTS" document for strategic conveyance components provides guidance on the required content of submissions for product authorisation. This guidance is intended for prospective suppliers who propose to offer infrastructure asset components intended for take-over by the Corporation. The document may be accessed via the link in 1 (a) below by selecting "Product Registers" and then downloading the "Strategic-Product-Supply-Submission-Guidelines.pdf".

In accordance with the submission requirements document, the prospective supplier shall:

1. Investigate typical local WA infrastructure and shall nominate the specific product performance characteristics that match particular (named) Corporation infrastructure, by:
(a) reference to the design standards and specifications published on the link below <https://www.watercorporation.com.au/About-us/Suppliers-and-contractors/Resources/Design-standards>; and
(b) direct contact with Corporation conveyance network designers/managers/operators on the ground.
2. Where a specific product/component on offer is considered to be a potential value-adding match to particular Corporation infrastructure as a result of the investigations described under (1), make a formal (succinct) documented product submission that specifically:
(a) identifies product performance characteristics that match nominated Corporation infrastructure components and estimates the corresponding value added to Corporation infrastructure by use of the proposed product/component(s);
(b) defines, in succinct engineering terms, the material, structural, dimensional, mechanical and hydraulic performance characteristics of proposed product assemblies - including **all** integral or joined component parts; and
(c) provides – for each product assembly – its engineering design basis, drawings and relevant supporting engineering calculations and material strength data modelling, all duly validated (signed) by a suitably qualified engineering design professional.

Formal submissions shall exclude commercial product brochures, marketing/sales literature and product endorsement references by other product users (external to the Corporation).

3. Provide independent evidence of conformity with relevant product standards including type performance test evidence e.g. product certification of conformity with an acceptable national or international product standard or an acceptable in-factory inspection and test plan (ITP), duly embedded into the ISO 9001 accredited product manufacturing facility Quality Management System;

Formal submissions shall exclude disparate endorsements or random pseudo-certificates that are not ISO Type 5 product certification elements and are typically provided by a duly accredited Certification Body, as an integral part of its certification process.

4. Provide evidence of quantum and currency of product and public liability and, where applicable, professional indemnity insurance cover for product to be supplied into Corporation infrastructure.

5 TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
A1 - GRAVITY SEWER COMPONENTS						
NON-PRESSURE PIPES						
1.	Unplasticised PVC (PVC-U), Drain, Waste & Vent (DWV) Pipe System (requires compliance with AS/NZS 1260:2009 for performance testing and product certification)	Iplex 22-99-WWA	Sandwich Construction (SC), Solvent Weld Joint (SWJ), colour grey	DN100-SN6 DN150-SN8 DN225-SN8	In accordance with Water Corporation Design Standard - DS50	08/2027
			Plain Wall Construction (PWC), Solvent Weld Joint (SWJ), colour grey	DN300-SN8		
			Plain Wall Construction (PWC), Elastomeric Seal Joint (ESJ), colour grey	DN375-SN8		
		Vinidex 22-95-WWA	Plain Wall Construction (PWC), Solvent Weld Joint (SWJ), colour grey	DN100-SN6 DN150-SN8 DN225-SN8 DN300-SN8	In accordance with Water Corporation Design Standard - DS50	05/2027
			Plain Wall Construction (PWC), Elastomeric Seal Joint (ESJ), colour grey	DN375-SN8		
		Vinidex 18-51-WWA	Sandwich Construction (SC), Solvent Weld Joint (SWJ), colour grey	DN100-SN6 DN150-SN8 DN225-SN8	In accordance with Water Corporation Design Standard - DS50	09/2023

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORIZATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
1.	Unplasticised PVC (PVC-U), Drain, Waste & Vent (DWV) Pipe System cont'd	Pipemakers 22-16-WWA	Sandwich Construction (SC), Solvent Weld Joint (SWJ), colour grey	DN100-SN6	In accordance with Water Corporation Design Standard - DS50	03/2024
			Plain Wall Construction (PWC), Solvent Weld Joint (SWJ), colour grey	DN100-SN6 DN100-SN10		
		Pipemakers 19-55-WWA	Plain Wall Construction (PWC), Solvent Weld Joint (SWJ), colour grey	DN150-SN8 DN225-SN8 DN300-SN8	In accordance with Water Corporation Design Standard - DS50	03/2024
			Plain Wall Construction (PWC), Elastomeric Seal Joint (ESJ), colour grey	DN375-SN8		
2.	Polypropylene (PP) Pipe System (requires compliance with SPS 125)	Iplex 22-99-WWA	SewerMax Structured wall pipe, Elastomeric Seal Joint (ESJ)	DN375-SN10 DN450-SN10 DN525-SN10 DN600-SN10		08/2027
3.	Glass Reinforced Plastic (GRP) Pipe System (requires compliance with SPS 130)	RPC Pipe Systems 17-16-WA/WWA	Flowtite Filament Wound Pipe System with Elastomeric Seal Joint (ESJ)	DN300 to DN1200 SN10,000 to SN20,000 PN6 to PN35		05/2022 (undergoing assessment for re-authorisation)
		Clover Pipelines 19-70-WWA	Superlit Filament Wound GRP Non-pressure Pipe System	DN300 to DN1200 SN10,000 to SN40,000 PN3 to PN35		12/2024

Strategic Products Register
Conveyance, Mechanical and Process Systems



4.	Reinforced Concrete Pipe System – lined (requires compliance with AS/NZS 4058:2007 for performance testing and product certification)		CORPORATION INVITING SUBMISSION			
5.	Reinforced Concrete Pipe System – unlined (requires compliance with AS/NZS 4058:2007 for performance testing and product certification)		CORPORATION INVITING SUBMISSION			

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
NON-PRESSURE PIPE FITTINGS						
6.	Unplasticised (PVC-U), Drain, Waste & Vent (DWV) – Fittings (requires compliance with AS/NZS 1260:2009 for performance testing and product certification)	Plastec 19-57-WWA	Moulded, Solvent Weld Joint (SWJ)	DN100-SN6 DN150-SN6 DN225-SN6 DN300-SN6 DN100 and DN150-SN8 heavy duty	In accordance with Water Corporation Design Standard - DS50	08/2025
			Moulded, Elastomeric Seal Joint (ESJ)	DN100 and DN150-SN8 heavy duty		
		Iplex 22-99-WWA	Moulded, Solvent Weld Joint (SWJ)	DN100-SN6 DN150-SN6 DN225-SN6 DN300-SN6	In accordance with Water Corporation Design Standard - DS50	08/2027
			Moulded, Elastomeric Seal Joint (ESJ)	DN375-SN6		
		Vinidex 22-95-WWA	Moulded, Solvent Weld Joint (SWJ)	DN100 – SN6 DN150 – SN6	In accordance with Water Corporation Design Standard - DS50	05/2027
		Vinidex 18-51-WWA	Moulded, Solvent Weld Joint (SWJ)	DN225-SN6 DN300-SN6	In accordance with Water Corporation Design Standard - DS50	09/2023
			Moulded, Elastomeric Seal Joint (ESJ)	DN375-SN6		
		Holman Industries 20-77-WWA	Moulded, Solvent Weld Joint (SWJ)	DN100 – SN10 DN150 – SN8 DN225 – SN8 DN300 – SN8 DN375 – SN8 Heavy duty	In accordance with Water Corporation Design Standard - DS50	01/2025
			Moulded, Elastomeric Seal Joint (ESJ)			
		Australian Plastic Profiles (Pipe King) 22-08-WWA	Moulded, Solvent Weld Joint (SWJ)	DN100 – SN6 DN150 – SN6 DN225 – SN6	In accordance with Water Corporation Design Standard - DS50	07/2025

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
NON-PRESSURE PIPE – TRENCHLESS						
7.	Reinforced Concrete Jacking Pipe System – Lined (requires compliance with AS/NZS 4058:2007 for performance testing and product certification)		CORPORATION INVITING SUBMISSION			
8.	Unplasticised (PVC-U) Jacking Pipe System (requires compliance with SPS 115)	No Dig Equipment 22-92-WWA	PVC microtunnelling system using David Moss PVC-U PN 9 Series 1 pipe	DN150 and DN225	Product shall be installed as per the authorised supplier’s work method. Pipe jacking is not to be carried out in temperatures exceeding 45°C. 12 kN max jacking load for DN150 PVC Boring Pipe. 24 kN max jacking load for DN225 PVC Boring Pipe.	04/2027
		DJ Mac Cormick 22-03-WWA	PVC microtunnelling system using Iplex PVC-U Series 2 pipe	DN300 PN12	Product shall be installed as per the authorised supplier’s work method. DN300 - 4.5m deep: from max jacking load of 147 kN at 20 °C to max jacking load of 85 kN at 50 °C. DN300 - 6m deep: from max jacking load of 137 kN at 20 °C to max jacking load of 79 kN at 50 °C.	06/2025
		GM Microtunnelling 22-15-WWA	PVC microtunnelling system using Iplex PVC-U Series 2 pipe	DN300 PN12 DN375 PN20	Product shall be installed as per the authorised supplier’s work method. DN375 - 4.5m deep: from max jacking load of 215 kN at 20 °C to max jacking load of 125 kN at 50 °C. DN375 - 6m deep: from max jacking load of 181 kN at 20 °C to max jacking load of 105kN at 50 °C. DN300 - 4.5m deep: from max jacking load of 147 kN at 20 °C to max jacking load of 85 kN at 50 °C. DN300 - 6m deep: from max jacking load of 137 kN at 20 °C to max jacking load of 79 kN at 50 °C.	06/2025

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
9.	Glass Reinforced Plastic (GRP) Jacking Pipe System (requires compliance with SPS 130)	Clover Pipelines 19-70-WWA	Superlit Filament GRP Jacking Pipe System	DN300 to DN1200 SN ≥ 20,000 PN3 to PN35	Clover shall engage with pipe jacking system installers so as to provide endorsed CCTV, ovality and joint pressure test reports that verify jacked pipe performance for at least the first two trial projects undertaken in accordance with DS50, for defined trial projects/locations.	12/2024
		Iplex/RPC Amended 16-04-WWA	Flowtite Filament Wound Jacking Pipe System	DN300 to DN1200 SN ≥ 20,000 PN3 to PN6	Product is on trial till Jul 2017 or until an acceptable number of projects demonstrates performance. Iplex/RPC shall engage with pipe jacking system installers so as to provide endorsed CCTV, ovality and joint pressure test reports that verify jacked pipe performance for at least the first two trial projects undertaken in accordance with DS50, for defined trial projects/locations.	07/2020 after completion of trial (undergoing assessment for re-authorisation)
		Empire Infrastructure 18-43-WWA	Bosspipe Centrifugally Cast Jacking Pipe System	DN350 to DN1200 SN 30,000 to 500,000 PN3 to PN20 Supplied with Stainless Steel or GRP (filament wound) couplings	Product is on trial till Feb 2023 or until an acceptable number of projects demonstrates performance. Empire Infrastructure shall engage with pipe jacking system installers so as to provide endorsed CCTV, ovality and joint pressure test reports that verify jacked pipe performance for at least the first two trial projects undertaken in accordance with DS50, for defined trial projects/locations.	02/2023 after completion of trial (undergoing assessment for re-authorisation)

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
PRE-CAST REINFORCED CONCRETE ACCESS CHAMBER ASSEMBLIES						
10.	Wastewater Access Chamber Assembly (requires compliance with AS 4198 product performance and testing requirements and with DS 50 - incl. AS1170 - for loading and flotation resistance requirements)	Cascade 19-75-WWA	Type 1 circular unlined RC Access Chamber Assembly	Chamber base and liners (DN1050 ID), conversion slab, spacers and two part access cover cast into RC surround	1.5 m to 7.5 m effective depth. For DN150 & DN225 sewers. For non/mildly aggressive internal exposure environment and AS 3735 B2 external exposure environment. In accordance with the drawings attached to the authorisation letter. Cored holes in liners to be a minimum of 265 mm from joints.	12/2025
		Humes/Holcim 22-87-WWA	Type 1 circular unlined RC Access Chamber Assembly	Chamber Superbowl base, liners (DN1050 ID), conversion slab, spacers and two part access cover cast into RC surround	Up to 7.5 m effective depth. For DN150 & DN225 sewers. In accordance with DS50 and the design/drawings attached to the authorisation letter. Exposure limited to non-aggressive internal and mild external exposure environments, as defined in AS 4198. Cored holes in liners to be a minimum of 100mm from joints for holes less than 300mm diameter and 150mm for holes greater than 300mm.	04/2027
		Smartstream Technology 23-03-WWA	Type 1 circular unlined RC Access Chamber Assembly	Chamber DN600 bubble base, DN1050 ID liners (by others), conversion slab, spacers and two part access cover cast into RC surround	Up to 7.5 m effective depth. For DN150 & DN225 sewers. In accordance with DS50 and the design/drawings attached to the authorisation letter. Exposure classification B2 internally & externally. Cored holes in liners to be a minimum of 100mm from joints for holes less than 300mm diameter and 150mm for holes greater than 300mm.	05/2028

		Hydrastorm/TC Precast 22-11-WWA	Type 1 circular unlined RC Access Chamber Assembly	Chamber base, DN1050 ID liners (by others), conversion slab, spacers and two part access cover cast into RC surround	Up to 7.5 m effective depth. For DN150 & DN225 sewers. In accordance with DS50 and the design/drawings attached to the authorisation letter. Exposure limited to non-aggressive internal and mild external exposure environments, as defined in AS 4198. Cored holes in liners to be a minimum of 100mm from joints for holes less than 300mm diameter and 150mm for holes greater than 300mm.	06/2027
Wastewater Access Chamber Assembly cont'd (requires compliance with AS 4198 product performance and testing requirements and with DS 50 - incl. AS1170 - for loading and flotation resistance requirements)		Georgiou 18-46-WWA	Type 6 square plastics-lined RC Access Chamber Assembly	Chamber base, liners (1200 x 1200), conversion slab and two part access cover cast into RC surround	Up to 12 m effective depth For DN150 to DN600 sewers Exposure classification B2 internally & externally In accordance with DS50 and supplier's drawings	02/2023 (undergoing assessment for re- authorisation)
		DM Civil 17-12-WWA	Type 6 square plastics-lined RC Access Chamber Assembly	Chamber base and liners (1200 x 1200)	Up to 12 m effective depth For DN300 to DN600 sewers Exposure classification D internally & externally In accordance with DS50 and supplier's drawings	02/2022 (undergoing assessment for re- authorisation)
		Humes/Holcim 22-88-WWA	Type 6 circular plastics-lined RC Access Chamber Assembly	Chamber base, liners (DN1200), conversion slab, spacers and two part access cover cast into RC surround	Up to 11 m effective depth For DN 300 and larger sewers. In accordance with DS50 and the design/drawings attached to the authorisation letter. Suitable for exposure to aggressive internal environment and severe external exposure environment, as defined in AS 4198	04/2027
		Smartstream Technology 18-45-WWA	Type 6 circular plastics-lined RC Access Chamber Assembly	Chamber base, liners (DN1050), conversion slab and spacers	Up to 12 m effective depth For DN300 to DN450 sewers Exposure classification B2 internally & externally In accordance with DS50 and supplier's drawings	02/2023 (undergoing assessment for re- authorisation)

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
PRE-CAST REINFORCED CONCRETE ACCESS CHAMBER COMPONENTS						
11.	Conversion Slab (requires compliance with AS 3735 and AS 1170 for design and AS4198 for performance testing and product certification)	Icon-Septech/Cascada 17-42-WWA	Type 6, Plastic Lined, Precast RC, Conversion Slab	1680 x 1680 x 230H mm	For Type 6 Plastic Lined Precast RC 1200 x 1200 mm Square Access Chambers. In accordance with Water Corporation Standard Drawing AA01-77-1-D	12/2020 (undergoing assessment for re-authorisation)
12.	Access Cover Surrounds (requires compliance with Standard Drawing AA01-76-1 or AS4198 for performance testing and product certification)	Icon-Septech/Cascada 17-04-WWA	Access cover concrete surrounds	1430 x 1070 x 150H mm	In accordance with Water Corporation Standard Drawing AA01-76-1 In accordance with Water Corporation Standard Drawing AA01-76-1	01/2022 (undergoing assessment for re-authorisation)
				1430 x 1070 x 230H mm		
Access cover concrete surround products are also authorised as part of access chamber assemblies, refer to section above						

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
MAINTENANCE SHAFTS						
13.	Maintenance Shafts (requires compliance with WSA137 or AS 4999 for performance testing and product certification)	Smartstream Technology 18-53-WWA	LMDPE "Poo-Pit" maintenance shaft, with DN225 to DN375 U-PVC riser, fittings and cap	Type 8- 600dia LMDPE Sphere	For DN 150 to DN 375 sewers 1m<depth<4m	08/2023
		Aymroo 22-17-WWA	PVC-U maintenance shaft with DN225 or DN300 riser (by others) and DN225 or DN300 cap. PVC fittings: DN150 inlet long radius bend, DN150 socket to DN125 or DN180 flange inlet fitting for PE pressure main connection	Inline tee style MS Terminal elbow style MS 45 degree junction 90 degree junction	For DN150, DN225 and DN300 sewers Depth <4m Range of allowable angles inlet to outlet 75°-285° PVC pipe connections to PVC shaft are to be solvent welded Contractors to be aware of difficulties with mirror inspection of lines incorporating long radius bends. Inspection plan to be agreed with WC at start-up meeting	11/2027
		Rehau 17-41-WWA	PP maintenance shaft base units with PVC-U reducer to connect to DN300 riser and cap (PVC DWV pipe and fittings by others)	Straight through MS base Three inlet/one outlet MS base PVC DN375-300 reducer	For DN150 sewers 1m<depth<4m Product is on trial until December 2019 or until an acceptable number of projects demonstrates performance	12/2022 After completion of trial (undergoing assessment for re-authorisation)

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
	Maintenance Shafts (cont'd) (requires compliance with WSA137 or AS 4999 for performance testing and product certification)	Sewer Maintenance Shaft (SMS) Amended 16-02-WWA	PP maintenance shafts assembled with DN 225 solvent welded 'Split pipe ring' and 'Flange Collar' on DN 225 riser section and with DN 225 U-PVC cap	DN 225 x DN 375 riser connection base unit in-line (180°) and associated fittings suitable for DN 225 riser section	Product is on trial until an acceptable number of projects demonstrates performance. SMS shall provide details of each project trial location prior to trial commencement and shall provide endorsed report that verifies maintenance shaft performance for at least the first three trial projects undertaken in accordance with DS50 prior to handover. 1m<depth<4m For DN 150 & DN 225 sewers (interconnections with DN 150 sewers using eccentric DN 225 X DN 150 adaptors) Flange collar assembly to be installed as per http://sewerms.com.au/installation-instructions/pressure-testing/	06/2019 After completion of trial (undergoing assessment for re-authorisation)

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORITY No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORITY EXPIRY DATE
ACCESS CHAMBER & MAINTENANCE SHAFT COVERS						
14.	Cast & Ductile Iron Access Covers (requires compliance with SPS 801 and AS 3996 for performance testing and product certification)	Cascada 17-26-WWA	DI – 2 part Solid Top Access Covers & Frames	1010 x 610 mm Class D – Bolt Down		05/2022 (undergoing assessment for re-authorisation)
			DI – 2 part concrete infill Access Covers & Frames	1010 x 610 mm Class D – Bolt Down		
		Cascada 17-29-WWA	DI - Maintenance Shaft Covers & Frames	DN375 Class D		10/2022 (undergoing assessment for re-authorisation)
		Dobbie 21-84-WWA	DI - Maintenance Shaft Covers & Frames	DN375 Class D		02/2026
		EJ 16-06-WWA	DI – 2 part Solid Top Access Covers & Frames	1000 x 600 mm Class D Model LD202BD		09/2023
			DI – 2 part concrete infill Access Covers & Frames	995 x 600 mm Class D Model D202BD		
			DI - Maintenance Shaft Covers & Frames	DN375 Class B		
		EJ 20-79-WWA	DI – 2 part Solid Top Access Covers & Frames	1000 x 600 mm Class D Model LD202T		01/2025
			DI – 2 part concrete infill Access Covers & Frames	1000 x 600 mm Class D Model D202T		

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
	Cast & Ductile Iron Access Covers (cont'd) (requires compliance with SPS 801 and AS 3996 for performance testing and product certification)	Iplex / Gatic 22-01-WWA	DI - 2 part Solid Top Access Covers & Frames	610 x 984 mm Class D - Bolt Down		08/2027
			DI - 2 part Concrete Infill Access Covers & Frames	610 x 984 mm Class D - Bolt Down		
			DI - Maintenance Shaft Covers & Frames	DN375 Class D		
		Hygrade 22-09-WWA	DI - 2 part Solid Top Access Covers & Frames	610 x 986 mm Class D - Bolt Down		06/2027
		Hygrade 18-47-WWA	DI - 2 part Concrete Infill Access Covers & Frames	610 x 986 mm Class D - Bolt Down		01/2023 (undergoing assessment for re-authorisation)
		Smartstream Technology 18-53-WWA	DI - Maintenance Shaft Covers & Frames	DN450 Class D		08/2023
		Smartstream Technology 21-86-WWA	DI - 2 part Solid Top Access Covers & Frames DI - 2 part Concrete Infill Access Covers & Frames	600x1000 Class D		08/2026
15.	Non Metallic / Polymeric Covers (compliance with SPS 801 and AS 3996 for performance testing and product certification)	Smartstream Technology 18-53-WWA	PE - Maintenance Shaft Covers & Frames	DN450 Class C	To be installed only in backyard (non-trafficable) applications	08/2023

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
A2 - WASTEWATER PUMPING STATION SYSTEMS						
COMPLETE PRE-CAST REINFORCED CONCRETE PUMPING STATION ASSEMBLIES						
16.	Type 10 – Pumping Station System (requires compliance with AS 3735 and AS 1170 for design and AS 4198 & AS 4058 for performance testing and product certification)	Georgiou 17-27-WWA	Complete precast pumping station assembly: base, vertically cast liner and top slab	DN1800 internal diameter	Max 12 m depth Exposure Classification D internally & B2 externally In accordance with product drawings CH-T10-01-001 and GP 210425-GA Rev 2, CH-T10-01-001, GP 350010-GA Rev 2, GP 350010-R Rev 2 and Water Corporation standard drawings CA01-009-023-01 & 02	08/2022 (undergoing assessment for re-authorisation)
		Holcim Australia 18-49-WWA	Complete precast pumping station assembly: base, spun liner and end segment, and top slab	DN1800 internal diameter	Max 12 m depth Exposure Classification D internally & B2 externally In accordance with product drawings PP-PW-1828-WPL-GA Issue 0, PP-PW-1828BS-WPL-P Issue A, PP-PW-1828-WPL-GA Issue 0, PP-PW-1828SH01-WPL-P Issue A, PP-PW-1828SH02-WPL-P Issue A and Water Corporation standard drawings CA01-009-023-01 & 02	04/2023 (undergoing assessment for re-authorisation)

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
17.	Type 40 – Pumping Station System (requires compliance with AS 3735 and AS 1170 for design and AS 4198 & AS 4058 for performance testing and product certification)	Georgiou 17-27-WWA	Complete precast pumping station assembly: base, vertically cast liner and top slab	DN2250 internal diameter	Max 12 m depth Exposure Classification D internally & externally In accordance with product drawings Type 40 -01 Issue 1, Type 40 -02, 03 & 04 Issue 1 and Water Corporation standard drawings CA01-010-006-01, 02, 03 & 04	08/2022 (undergoing assessment for re-authorisation)
		Holcim Australia 18-50-WWA	Complete precast pumping station assembly: base, spun liner and end segment, and top slab	DN2250 internal diameter	Max 12 m depth Exposure Classification D internally & externally In accordance with product drawings PW-2250-40-GA Issue F, PW-2250-40-Base-P Issue D, PW-2250-40-GA Issue F, PW-2250-40-Shaft-P Issue B, PW-2250-40-End-P Issue B, and Water Corporation standard drawings CA01-010-006-01, 02, 03 & 04	09/2023
		Smartstream 23-01-WWA	Complete precast pumping station assembly: base, liner and top slab	DN2250 internal diameter	Max 12 m depth Exposure classification D internally and B2 externally In accordance with product drawings SST-00032 sheets 1-7 issue L	03/2028

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
18.	Type 90 – Pumping Station System (requires compliance with AS 3735 and AS 1170 for design and AS 4198 & AS 4058 for performance testing and product certification)	Georgiou 17-27-WWA	Complete precast pumping station assembly: base, vertically cast liner and top slab	DN3000 internal diameter	Max 12 m depth Exposure Classification D internally & externally In accordance with product drawings Type 90-01 Issue 1, Type 90-02, 03 & 04 Issue 1 and Water Corporation standard drawings CA01-020-008-01, 02, 03 & 04	08/2022 (undergoing assessment for re-authorisation)
		Smartstream 23-02-WWA	Complete precast pumping station assembly: base, liner and top slab	DN3000 internal diameter	Max 12 m depth Exposure classification D internally and B2 externally In accordance with product drawings SST-00033 sheets 1-9 issue L	03/2028

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
PRE-CAST REINFORCED CONCRETE PUMPING STATION COMPONENTS						
19.	Top Slab (requires compliance with Standard Drawings CA01-9-23-01 & 02 for Type 10, CA01-10-6-01, 02, 03 & 04 for Type 40, and CA01-20-8-01, 02, 03 & 04 for Type 90)	Icon-Septech/Cascada 16-05-WWA	Precast RC Top Slab Type 10	2400 x 2370 x 400H mm	In accordance with Water Corporation Standard Drawings CA01-009-023-01 & 02	07/2021 (undergoing assessment for re-authorisation)
			Precast RC Top Slab Type 40	2700 x 2700 x 400H mm	In accordance with Water Corporation Standard Drawings CA01-010-006-01, 02, 03 & 04	07/2021 (undergoing assessment for re-authorisation)
			Precast RC Top Slab Type 90	4500 x 3600 x 400H mm	In accordance with Water Corporation Standard Drawings CA01-020-008-01, 02, 03 & 04	07/2021 (undergoing assessment for re-authorisation)
		Top slab products are also authorised as part of pump station assemblies, refer to section above				

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
PRE-CAST REINFORCED CONCRETE AIR VALVE AND SCOUR VALVE PIT ASSEMBLIES COMPLETE						
20.	Complete DN 1500 valve pit assembly	Humes/Holcim 22-89-WWA	Circular RC Valve Pit Assembly for air and scour valve applications	Pit base & liners (DN 1500) c/w conversion slab, spacers and access cover cast into RC surround, for deep (> 2.2 m) 2-part cover and shallow (up to 2.2m) with 3-part or assisted lift cover options	In accordance with DS51 and the design/drawings attached to the authorization letter. Exposure limited to non-aggressive internal and mild external exposure environments as defined in AS 4198	04/2027
21.	Complete DN 1800 valve pit assembly	Humes/Holcim 22-90-WWA	Circular RC Valve Pit Assembly for air and scour valve applications	Pit base & liners (DN 1800) c/w conversion slab, spacers and access cover cast into RC surround, for deep (> 2.2 m) 2-part cover and shallow (up to 2.2m) with 3-part or assisted lift cover options	In accordance with DS51 and the design/drawings attached to the authorization letter. Exposure limited to non-aggressive internal and mild external exposure environments as defined in AS 4198	04/2027

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
INLET ACCESS CHAMBERS, AIR VALVE, SCOUR VALVE, VALVE PIT AND PUMPING STATION COVERS						
22.	Cast & Ductile Iron Solid Top Covers (requires compliance with AS 3996 for performance testing and product certification)	Iplex / Gatic 22-01-WWA	DI - 3 Part Solid Top Cover & Frame	914 x 1664 mm Class D		08/2027
			DI - 4 Part Solid Top Cover & Frame	914 x 2038 mm Class D		
			DI - 3 Part Solid Top Cover & Frame	914 x 1511 mm Class D		
		EJ Australia 21-85-WWA	DI – Bolt Down 3 Part Solid Top Cover & Frame	915 x 1670 mm Class D		05/2026
			DI – Bolt Down 4 Part Solid Top Cover & Frame	915 x 2040 mm Class D		
			DI – Bolt Down 3 Part Solid Top Cover & Frame	915 x 1535 mm Class D		
		Cascada 17-26-WWA	DI – Bolt Down 3 Part Solid Top Cover & Frame	915 x 1670 mm Class D		05/2022 (undergoing assessment for re-authorisation)
			DI – Bolt Down 4 Part Solid Top Cover & Frame	915 x 2070 mm Class D		
			DI – Bolt Down 3 Part Solid Top Cover & Frame	915 x 1535 mm Class D		

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
RIISING MAIN - PRESSURE PIPES						
23.	Unplasticised PVC (PVC-U) Pressure Pipe System (requires compliance with SPS 115)	Vinidex 22-93-WWA	Elastomeric Seal Joint (ESJ), Series 2 PN16, colour cream	DN100 DN150 DN200 DN250 DN300	In accordance with Water Corporation Design Standard - DS51	05/2027
	Elastomeric Seal Joint (ESJ), Series 2 PN18, colour cream		DN100 DN150 DN200			
	Elastomeric Seal Joint (ESJ), Series 2 PN20, colour cream		DN100 DN150 DN200 DN250			

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
24.	Modified PVC (PVC-M) Pressure Pipe System (requires compliance with SPS 116)	David Moss 22-98-WWA	Elastomeric Seal Joint (ESJ), Series 2 PN16, colour cream	DN100 DN150 DN200 DN250	In accordance with Water Corporation Design Standard - DS51	05/2027
			Elastomeric Seal Joint (ESJ), Series 2 PN20, colour cream	DN100 DN150 DN200		
		Vinidex 22-93-WWA	Elastomeric Seal Joint (ESJ), Series 2 PN16, colour cream	DN100 DN150 DN200 DN250 DN300 DN375	In accordance with Water Corporation Design Standard - DS51	05/2027
			Elastomeric Seal Joint (ESJ), Series 2 PN20, colour cream	DN100 DN150 DN200		
		Iplex 22-00-WWA	Elastomeric Seal Joint (ESJ), Series 2 PN16 & PN20, colour cream	DN100 DN150 DN200 DN250 DN300 DN375 DN450	In accordance with Water Corporation Design Standard - DS51	07/2027

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORI- SATION EXPIRY DATE
25.	Oriented PVC (PVC-O) Pressure Pipe System (requires compliance with SPS 117)	Vinidex 22-93-WWA	Elastomeric Seal Joint (ESJ), Series 2 PN16, colour cream	DN100 DN150 DN200 DN250 DN300	In accordance with Water Corporation Design Standard - DS51	05/2027
		Iplex 22-00-WWA	Elastomeric Seal Joint (ESJ), Series 2 PN16, colour cream	DN100 DN150 DN200 DN250 DN300	In accordance with Water Corporation Design Standard - DS51	07/2027

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
26.	Polyethylene (PE) Pressure Pipe System (requires compliance with SPS 125)	Vinidex 22-94-WWA	PE100 Series 1 Colour black, striped cream PN16 and PN20	DN125 DN180 DN250 DN315 DN355 DN450 DN560 DN630	Sizes above DN630 not generally acceptable due to limitations on repair options.	04/2027
			PE100 HSCR Series 1 Colour black, striped cream PN20			
		Enviropipes 22-96-WWA	“Enviropressure” PE100 Series 1 Colour black, striped cream PN16 & PN20	DN125 DN180 DN250 DN315 DN355 DN450 DN560 DN630	Sizes above DN630 not generally acceptable due to limitations on repair options.	04/2027
			PE100 HSCR Series 1 Colour black, striped cream PN20			
		David Moss 22-97-WWA	PE100 Series 1 Colour black, striped cream PN16 & PN20	DN125 DN180 DN250 DN315 DN355 DN450 DN560 DN630	Sizes above DN630 not generally acceptable due to limitations on repair options.	04/2027
			PE100 HSCR Series 1 Colour black, striped cream PN20			
		Acu-Tech 22-04-WWA	PE100 Series 1 Colour black, striped cream PN16 & PN20	DN125 DN180 DN250 DN315 DN355 DN450 DN560 DN630	Sizes above DN630 not generally acceptable due to limitations on repair options.	05/2027
			PE100 HSCR Series 1 Colour black, striped cream PN20			

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORI- SATION EXPIRY DATE
27.	Glass Reinforced Plastic (GRP) Pipe System (requires compliance with SPS 130)	RPC Pipe Systems 17-16-WA/WWA	Flowtite Filament Wound Pressure Pipe Systems with Elastomeric Seal Joint (ESJ)	DN300 to DN1200 SN5,000 to SN20,000 PN12 to PN35	In accordance with Water Corporation Design Standard - DS51	05/2022 (undergoing assessment for re-authorisation)
		Clover Pipelines 19-69-WA/WWA	GRP Superlit Filament Wound Pressure Pipe System with Elastomeric Seal Joint (ESJ)	DN300 to DN1200 SN10000 to SN20000 PN12 to PN35	In accordance with Water Corporation Design Standard – DS51	12/2024

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
RISING MAIN - PRESSURE PIPE FITTINGS						
28.	Ductile Iron (DI) Pipe Fittings (requires compliance with SPS 106)	Vinidex 22-07-WWA	PN35 Superlink range	DN100 to DN375	Can be used with any authorised brand of Series 2 PVC pipe. DI spigotted fittings not permissible with PVC sockets. Tees – AS/NZS 2280 Fig H13 SP/SP/FL are rated PN16 only. Polymeric coated to AS/NZS 4158.	08/2027
			PN16 Superlink II lightweight range	DN100 to DN250	Can be used with any authorised brand of Series 2 PVC pipes. DI spigotted fittings not permissible with PVC sockets. Polymeric coated to AS/NZS 4158.	
		Iplex/Crevet 22-02-WWA	PN16 (Flanged) & PN35 (Socket & Flanged) NIBF	DN100 to DN750	Can be used with any authorised brand of Series 2 PVC pipes and GRP pipes. DI spigotted fittings not permissible with PVC and GRP sockets. Tees – AS/NZS 2280 Fig H13 SP/SP/FL are rated PN16 only. Polymeric coated to AS/NZS 4158.	08/2027
			PN16 (Crevet SL Socket with Flange Fittings) NIBF & PN20 (Crevet SL Socket Fittings) NIBF lightweight	DN100 to DN300	Can be used with any authorised brand of Series 2 PVC pipes and GRP pipes. DI spigotted fittings not permissible with PVC and GRP sockets. Polymeric coated to AS/NZS 4158.	

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
	Ductile Iron (DI) Pipe Fittings (cont'd) (requires compliance with SPS 106)	Derwent Industries 18-52-WWA	PN35 Traditional Range with Tyton style EPDM seals	DN100 to DN750	Can be used with any authorised brand of Series 2 PVC pipes DI spigotted fittings not permissible with PVC sockets. Tees – AS/NZS 2280 Fig H13 SP/SP/FL are rated PN16 only. Polymeric coated to AS/NZS 4158	06/2024
			PN20 Socketed Range with Tyton style EPDM seals	DN100 DN150	Can be used with any authorised brand of Series 2 PVC pipes. DI spigotted fittings not permissible with PVC sockets. Polymeric coated to AS/NZS 4158	
			PN16 Lightweight Range with Tyton style EPDM seals	DN100 to DN750	Can be used with any authorised brand of Series 2 PVC pipes. DI spigotted fittings not permissible with PVC sockets. Polymeric coated to AS/NZS 4158	
		Viadux Water Network Solutions 16-09-WA/WWA	PN16 & PN35 traditional range with elastomeric ring seals “Tyton style” EPDM	DN100 to DN750	Can be used with any authorised brand of Series 2 PVC pipes and GRP pipes. DI spigotted fittings not permissible with PVC sockets. Tees – AS/NZS 2280 Fig H13 SP/SP/FL are rated PN16 only. Polymeric coated to AS/NZS 4158.	08/2021 (undergoing assessment for re-authorisation)
			PN16 & PN35 Auslite lightweight range with elastomeric ring seals “Tyton style” EPDM	DN100 DN150	Can be used with any authorised brand of Series 2 PVC pipes and GRP pipes. DI spigotted fittings not permissible with PVC sockets. Polymeric coated to AS/NZS 4158.	

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
	Ductile Iron (DI) Pipe Fittings (cont'd) (requires compliance with SPS 106)	Galvin Engineering 22-91-WA/WWA	PN16 lightweight range and PN35 traditional range	DN100 to DN300	Can be used with any authorised brand of Series 2 PVC pipes. DI spigotted fittings not permissible with PVC sockets. Tees – AS/NZS 2280 FIG H13 SP/SP/FL are rated PN16 only. Polymeric coated to AS/NZS 4158.	01/2027
		Dobbie Dico 22-05-WWA	PN16 & PN35 “G1” traditional range	DN100 to DN250	Can be used with any authorised brand of Series 2 PVC pipes and GRP pipes. DI spigotted fittings not permissible with PVC sockets. Tees – AS/NZS 2280 FIG H13 SP/SP/FL are rated PN16 only. Polymeric coated to AS/NZS 4158.	05/2027
		Dobbie Dico 17-33-WA/WWA	PN16 & PN20 “G2” lightweight range	DN100 DN150	Can be used with any authorised brand of Series 2 PVC pipes. DI spigotted fittings not permissible with PVC sockets. Polymeric coated to AS/NZS 4158.	10/2022 (undergoing assessment for re-authorisation)

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
29.	Polyethylene (PE) Pipe Fittings (requires compliance with SPS 125)	Georg Fischer 17-22-WA/WWA	ELGEF electrofusion fittings, PN16, Series 1	Straight Couplings DN63to DN630 Tees, Elbows, Caps and Reducers DN63 to DN250	Can be used with any authorised brand of Series 1 PE100 pipes. In accordance with Water Corporation Design Standard – DS51 Strictly for wastewater applications only. Electrofusion jointing is only to be used where butt fusion jointing is not practical, and accepted by Water Corporation Engineering	06/2022 (undergoing assessment for re-authorisation)
		Vinidex 17-23-WA/WWA	Friatec Electrofusion Fittings, PN16, Series 1	Straight Couplings DN125 to DN630 Tees, Elbows, Caps and Reducers DN125 & DN180	Can be used with any authorised brand of Series 1 PE100 pipes. In accordance with Water Corporation Design Standard – DS51 Strictly for wastewater applications only Electrofusion jointing is only to be used where butt fusion jointing is not practical, and accepted by Water Corporation Engineering	10/2022 (undergoing assessment for re-authorisation)

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
	Polyethylene (PE) Pipe Fittings (cont'd) (requires compliance with SPS 125)	Enviropipes 17-31-WA/WWA	Fabricated PE100 Fittings dimensioned as SDR11	Scour/Air release tees (eccentric): 250x125, 315x180, 355x180, 400x180, 450x180, 500x180, 560x180, 630x180 Reducing tees (concentric): 250x125, 315x180, 355x180, 400x180, 450x180, 500x180, 560x180, 630x180	Rated for PN16 applications Can be used with any authorised brand of Series 1 PE100 pipes. In accordance with Water Corporation Design Standard – DS51	10/2022 (undergoing assessment for re-authorisation)
		David Moss 19-66-WWA	Fabricated PE100 Fittings dimensioned as SDR11 (PN 16)	Inverted tees (eccentric) 450x125, 450x180, 500x125, 500x180, 560x125, 560x180, 630x125, 630x180	Rated for PN16 applications Can be used with any authorised brand of Series 1 PE100 pipes. In accordance with Water Corporation Design Standard – DS51	10/2024
		Enviropipes 20-76-WWA	PE100 Sweep Bend Pipe Fittings rated SDR11 (PN16) and SDR9 (PN20)	DN125 DN180 DN250 DN315 DN355 DN450 DN500 DN560 DN630	SDR11 and SDR9 rated for PN16 and PN20 applications respectively. Can be used with any authorised brand of Series 1 PE100 pipe. In accordance with Water Corporation Design Standard – DS51	01/2025

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORI- SATION EXPIRY DATE
	Polyethylene (PE) Pipe Fittings (cont'd) (requires compliance with SPS 125)	David Moss 20-80-WWA	PE100 Sweep Bend Pipe Fittings rated SDR11 (PN16) and SDR9 (PN20)	DN125 DN180 DN250 DN315 DN355 DN450 DN500 DN560 DN630	SDR11 and SDR9 rated for PN16 and PN20 applications respectively. Can be used with any authorised brand of Series 1 PE100 pipe. In accordance with Water Corporation Design Standard – DS51	02/2025
		Acu-Tech 22-10-WWA	PE100 Sweep Bend Pipe Fittings rated SDR11 (PN16) and SDR9 (PN20)	DN125 DN180 DN250 DN315 DN355 DN450 DN500 DN560 DN630	SDR11 and SDR9 rated for PN16 and PN20 applications respectively. Can be used with any authorised brand of Series 1 PE100 pipe. In accordance with Water Corporation Design Standard – DS51	06/2027

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORI- SATION EXPIRY DATE
		AGRU Australia 19-62-WA/WWA	PN16 AGRU Injection Moulded Polyethylene Long Spigot Fittings and Couplers	Bends DN63, 125, 180 Stub Flanges DN63, 125, 180, 250, 315, 355 Reducers DN63, 125, 180, 250, 315 Electrofusion Couplers DN63, 125, 180, 250, 315, 355, 450 Equal Tees DN63, 125, 180, 250, 315, 355 Reducing Tees (Concentric) DN63, 125, 180, 250, 315	In accordance with Water Corporation Design Standards – DS51 All fittings are to be HSCR or equivalent. Electrofusion jointing is only to be used where butt fusion jointing is not practical, and accepted by Water Corporation Engineering. Suitable for Series 1 PE pipes only	10/2022 (undergoing assessment for re- authorisation)

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
	Polyethylene (PE) Pipe Fittings (cont'd) (requires compliance with SPS 125)	Plasson Australia 19-60-WA/WWA	PN16 Simona Injection Moulded Spigot Fittings	Bends: DN63, 125, 180, 250, 315, 355, 450 Stub Flanges: DN63, 125, 180, 250, 315, 355 Reducers: DN63, 125, 180, 250, 315 Equal Tees: DN63, 125, 250, 315, 355 Reducing Tees (Concentric): DN63, 125, 180, 250, 315	In accordance with Water Corporation Design Standards – DS51 All fittings are to be HSCR or equivalent. Electrofusion jointing is only to be used where butt fusion jointing is not practical, and accepted by Water Corporation Engineering. Suitable for Series 1 PE pipes only.	10/2022 (undergoing assessment for re-authorisation)
		Plasson Australia 19-61-WA/WWA	PN16 Plasson Injection Moulded Polyethylene Electrofusion Fittings	Couplings: DN63, 125, 180, 250, 315, 355, 450, 560, 630 Equal Tees: DN63, 125, 180, 250	In accordance with Water Corporation Design Standards – DS51 All fittings are to be HSCR or equivalent. Electrofusion jointing is only to be used where butt fusion jointing is not practical, and accepted by Water Corporation Engineering. Suitable for Series 1 PE pipes only.	10/2022 (undergoing assessment for re-authorisation)

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
30.	Restrained and Unrestrained Mechanical Pipe Couplings (requires compliance with AS/NZS 4998 or an acceptable alternative standard for performance testing and product certification. Restrained couplings also require compliance with an acceptable and appropriate standard to demonstrate axial restraint performance)	AVK Wang 17-36-WA/WWA	PN16 Wang Vari-Gib Unrestrained Pipe Coupling	Straight Coupling DN100 to DN600 Stepped Coupling DN100 to DN300	Can only be used for final joint closure. Can be used with CI, DI, MS, PVC-U/M/O and AC pipes. Can only be used with plastic pipes with the following minimum pressure rating/stiffness: PVC-U – PN9 PVC-M – PN12 PVC-O – PN16 GRP – SN5000	11/2022 (undergoing assessment for re-authorisation)
		AVK Wang 17-36-WA/WWA	PN16 AVK Supa-Gib Unrestrained Pipe Coupling	Straight Coupling DN100 to DN600 Stepped Coupling DN100 to DN300	Can only be used for final joint closure. Can be used with CI, DI, MS, PVC-U/M/O and AC pipes. Can only be used with plastic pipes with the following minimum pressure rating/stiffness: PVC-U – PN9 PVC-M – PN12 PVC-O – PN16 GRP – SN5000	11/2022 (undergoing assessment for re-authorisation)
		AVK Wang 17-37-WA/WWA	PN16 AVK 600 Series Unrestrained Pipe Coupling	Straight Coupling DN100 to DN400 Stepped Coupling DN100 to DN300	Can only be used for final joint closure. Can be used with CI, DI, MS, PVC-U/M/O and AC pipes.	11/2022 (undergoing assessment for re-authorisation)
		Daemco 17-30-WA/WWA	PN16 Daemco Reinoversal Unrestrained Mechanical Couplings	Straight Coupling DN100 to DN600	Can only be used for final joint closure. Can be used with CI, DI, MS, PVC-U/M/O, GRP and AC pipes.	10/2022 (undergoing assessment for re-authorisation)

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
	<p>Restrained and Unrestrained Mechanical Pipe Couplings (cont'd)</p> <p>(requires compliance with AS/NZS 4998 or an acceptable alternative standard for performance testing and product certification. Restrained couplings also require compliance with an acceptable and appropriate standard to demonstrate axial restraint performance)</p>	<p>Derwent Industries 19-72-WWA</p>	<p>PN16 Derwent Unrestrained Mechanical Couplings</p>	<p>Straight Coupling DN100 and DN150</p>	<p>Can only be used for final joint closure.</p> <p>Can be used with CI, DI, MS, PVC-U/M/O and AC pipes.</p> <p>Can only be used with plastics pipes with the following minimum pressure rating/stiffness: PVC-U – PN9 PVC-M – PN12 PVC-O – PN16</p>	<p>12/2024</p>
		<p>Georg Fischer 17-35-WA/WWA</p>	<p>PN16 WAGA Multi/Joint Restrained Pipe Couplings</p>	<p>Straight Coupling DN100 to DN300</p>	<p>Can only be used for final joint closure.</p> <p>Can be used with CI, DI, MS, PE and AC pipes.</p> <p>Axially restrained couplings shall be used for PE pipe joints.</p> <p>Pipe insert stiffeners shall be used for PE pipe jointing. Refer to manufacturer's installation specification.</p>	<p>10/2022 (undergoing assessment for re-authorisation)</p>
		<p>Vinidex 19-68-WWA</p>	<p>PN16 Viking Johnson UltraGrip Restrained Mechanical Couplings</p>	<p>Straight Couplings DN40 to DN300</p> <p>Reducing Couplings DN32/40 to DN250/300</p>	<p>Can only be used for final joint closure.</p> <p>Can be used with CI, DI, MS, PE and AC pipes.</p> <p>Axially restrained couplings shall be used for joints to PE pipes.</p> <p>Pipe insert stiffeners shall be used for PE pipe jointing. Refer to manufacturer's installation specification</p>	<p>11/2024</p>

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
	<p>Restrained and Unrestrained Mechanical Pipe Couplings (cont'd)</p> <p>(requires compliance with AS/NZS 4998 or an acceptable alternative standard for performance testing and product certification. Restrained couplings also require compliance with an acceptable and appropriate standard to demonstrate axial restraint performance)</p>	<p>Victaulic Australia 20-78-WA/WWA</p>	<p>Victaulic Style 905 Restrained Mechanical Couplings for PN16 PE Pressure Pipe</p>	<p>DN63 DN125 DN180</p>	<p>Can only be used for final joint closure.</p> <p>For use with PE Pipe only.</p> <p>Limited tolerance for Pipe ODs.</p>	<p>01/2025</p>
31.	<p>Mechanical Tapping Bands</p> <p>(requires compliance with AS/NZS 4793 for performance testing and product certification. For tapping bands for use with polyethylene pipe, requires compliance with AS/NZS 4129 for performance testing and product certification.)</p>	<p>Derwent Industries 19-65-WWA</p>	<p>PN16 Derwent Uniclamp Ductile Iron Flanged Offtake Clamps for Series 1 PE Pipe</p>	<p>DN125x80 DN125x100 DN180x80 DN180x100</p>	<p>For use with Series 1 PE pipe only.</p> <p>Tapping sizes DN80 - DN100.</p>	<p>10/2024</p>
		<p>Hygrade Water 19-74-WWA</p>	<p>PN16 Haku Ductile Iron Flanged Offtake Clamps for Series 1 PE Pipe</p>	<p>DN125x80 DN125x100 DN180x80 DN180x100 DN250x80 DN315x80 DN315x150 DN355x150</p>	<p>For use with Series 1 PE pipe only.</p> <p>Tapping sizes DN80, DN100 and DN150</p> <p>Alternative design tapping band for sizes DN 250 to DN 630 where the bottom half of the saddle is a Grade 316 stainless steel strap is not accepted by Water Corporation</p>	<p>12/2024</p>

TABLE A Wastewater Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORI- SATION EXPIRY DATE
A3 - WASTEWATER VACUUM SYSTEMS						
VACUUM MAIN - PRESSURE PIPES						
32.	Unplasticised PVC (PVC-U), Series 1, Pressure Pipe (requires compliance with SPS 115)	David Moss 22-98-WWA	Solvent Weld Joint (SWJ), Series 1, PN12, colour white or straw	DN50 DN80 DN100 DN125 DN150 DN200 DN225		05/2027
		Iplex 22-99-WWA	Solvent Weld Joint (SWJ), Series 1, PN12, colour white	DN50 DN80 DN100 DN125 DN150 DN200 DN225		08/2027

NOTES AND COMMENTS

A.	The above Tables comprise listings of authorised strategic products that have consistently performed over long periods of service, have been subject to formal documented authorisation processes as described in Note F or have been deemed fit for purpose by virtue of past usage in WA water and wastewater conveyance systems.
B.	The Tables are not intended to be an exhaustive listing of authorised product suppliers. The authorisation of new products (and suppliers) in the Tables shall be in accordance with the requirements set out in the following Notes.
C.	Authorisation of a new product shall be subject to a formal documented appraisal process such as described below. Where product performance in service is untried or untested special product warranty conditions may apply as deemed appropriate by the Corporation may be required.
D.	The objectives of authorisation processes for strategic products include evaluation of engineering and operational fitness for purpose, whole-of-life risk and value, service life expectancy and compatibility with existing Corporation infrastructure and stock.
E.	Authorisation shall be limited to the listed products. Designers and constructors shall ensure that products intended for use have been authorised in accordance with these requirements.
F.	The typical stages of authorisation of a strategic product are:
	(a) Submission to a formal engineering appraisal process whereby product design and certification to the required product standards is verified and operational fitness for purpose is proven by trial in live service, prior to any authorisation or use;
	(b) Appraisal of product design, third party certification and fitness for nominated performance levels under the WSAA National Product Appraisal Scheme operated by the Water Services Association of Australia (WSAA) on behalf of its members (including the Corporation). Information on WSAA appraisal application procedures, terms and conditions may be referenced at www.wsaa.asn.au . Appraisal may alternatively, by agreement, comprise a formal report by a product assessor having appropriate specialist product knowledge and qualifications acceptable to the Corporation;
	(c) Initial limited scale operational trialling of product samples including performance reporting under headings of ease of handling and robustness under live installation and service conditions, identified service limitations and adequacy of product assembly and installation instructions.
G.	Suppliers shall bear the liabilities including the cost of product appraisal and verification of compliance with the requirements herein. Suppliers are also advised to plan the timing of product submissions for authorisation to take due account of product appraisal and certification processes including operational trials which can be time consuming.

(*) Authorisation number:

yy	nn	xxA
Year	Sequential number	WA - Water WWA – Wastewater

6 TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
B1 WATER AND NON-DRINKING WATER CONVEYANCE PRODUCTS						
PRESSURE PIPES						
1.	Unplasticised PVC (PVC-U) Pressure Pipe System (requires compliance with SPS 115)	Iplex 16-19-WA/WWA	Elastomeric Seal Joint (ESJ), Series 2, PN16, Coloured Blue	DN100 DN150 DN200 DN250 DN300 DN375	In accordance with Water Corporation Design Standards - DS60, DS63	10/2024
			Elastomeric Seal Joint (ESJ), Series 2, PN16, Coloured Blue	DN100 DN150 DN200 DN250 DN300		
		Vinidex 16-08-WA/WWA	Elastomeric Seal Joint (ESJ), Series 2, PN18, Coloured Blue	DN100 DN150 DN200	In accordance with Water Corporation Design Standards - DS60, DS63	10/2024
			Elastomeric Seal Joint (ESJ), Series 2, PN20, Coloured Blue	DN100 DN150 DN200 DN250		

TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE		
2.	Modified PVC (PVC-M) Pressure Pipe System (requires compliance with SPS 116)	Iplex 16-19-WA/WWA	Elastomeric Seal Joint (ESJ), Series 2, PN16 & PN20, Coloured Blue	DN100	In accordance with Water Corporation Design Standards – DS60 and DS63	10/2024		
				DN150				
		Vinidex 16-08-WA/WWA	Elastomeric Seal Joint (ESJ), Series 2, PN16, Coloured Blue	DN200			In accordance with Water Corporation Design Standards - DS60 and DS63	10/2024
				DN250				
				DN300				
				DN375				
David Moss 19-63-WA/WWA	Elastomeric Seal Joint (ESJ), Series 2, PN20, Coloured Blue	DN100	In accordance with Water Corporation Design Standards - DS60 and DS63	10/2024				
		DN150						
		DN200						
		DN250						
David Moss 19-63-WA/WWA	Elastomeric Seal Joint (ESJ), Series 2, PN16 RRJ, Coloured blue	DN100	In accordance with Water Corporation Design Standards - DS60 and DS63	10/2024				
		DN150						
David Moss 19-63-WA/WWA	Elastomeric Seal Joint (ESJ), Series 2, PN20 RRJ, Coloured blue	DN200	In accordance with Water Corporation Design Standards - DS60 and DS63	10/2024				
		DN250						

TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORI- SATION EXPIRY DATE
3.	Polyethylene (PE) Pressure Pipe System (requires compliance with SPS 125)	Iplex 16-19-WA/WWA	PE100, Series 1, Coloured Black with Blue Stripes PN20 & PN25	DN25 DN32 DN63 DN125 DN180 DN250 DN315 DN355 DN450 DN560 DN630	Only resins assessed by Water Corporation as Disinfection Resistant are permitted Acceptable resins are listed below: 1- LyondellBasell’s Hostalen CRP 100 RCD; In accordance with Water Corporation Design Standards - DS60 and DS63	10/2024
		Vinidex 16-08-WA/WWA	PE100, Series 1, Coloured Black with Blue Stripes, PN20 & PN25	DN25 DN32 DN63 DN125 DN180 DN250 DN315 DN355 DN450 DN560 DN630	Only resins assessed by Water Corporation as Disinfection Resistant are permitted Acceptable resins are listed below: 1- LyondellBasell’s Hostalen CRP 100 RCD; In accordance with Water Corporation Design Standards - DS60 and DS63	10/2024
		Enviropipes 16-17-WA/WWA	PE100, Series 1, Coloured Black striped blue, PN20 & PN25	DN25 DN32 DN63 DN125 DN180 DN250 DN315 DN355 DN450 DN560 DN630	Only resins assessed by Water Corporation as Disinfection Resistant are permitted Acceptable resins are listed below: 1- LyondellBasell’s Hostalen CRP 100 RCD; In accordance with Water Corporation Design Standards - DS60 and DS63	10/2024

TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
		Acu-Tech 17-15-WA/WWA	PE100, Series 1, Coloured Black with Blue Stripes PN20 & PN25	DN25 DN32 DN63 DN125 DN180 DN250 DN315 DN355 DN450 DN560 DN630	Only resins assessed by Water Corporation as Disinfection Resistant are permitted Acceptable resins are listed below: 1- LyondellBasell's Hostalen CRP 100 RCD; In accordance with Water Corporation Design Standards - DS60 and DS63	10/2024
4.	Copper Pressure Pipe System (requires compliance with AS 1432 for performance testing and product certification)	MM Kembla 17-17-WA	Type A, Straight Tube	DN15 DN18 DN20 DN25 DN32 DN40 DN50 DN65 DN80 DN100 DN125 DN150 DN200	In accordance with Water Corporation Design Standards - DS63	10/2024
5.	Glass Reinforced Plastic (GRP) Pipe System (requires compliance with SPS 130)	RPC Pipe Systems 17-16-WA/WWA	Flowtite GRP Filament Wound Pipe System with Elastomeric Seal Joint (ESJ)	DN300 to DN1200 SN5000 to SN20000 PN12 to PN35	In accordance with Water Corporation Design Standard – DS60	10/2024

TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
		Clover Pipelines 19-69-WA/WWA	GRP Superlit Filament Wound Pipe System with Elastomeric Seal Joint (ESJ)	DN300 to DN1200 SN10000 to SN20000 PN12 to PN35	In accordance with Water Corporation Design Standard – DS60	12/2024
6.	Steel Pipe System (requires compliance with SPS 100)	Steel Mains	Sintakote (MDPE Coated, Cement Lined) Sintapipe (MDPE Coated, MDPE Lined) With Jointing System: Sintajoint (ESJ) Sintalock (ESJ-WR) Plain End (WJ-PE) Ball & Socket (WJ-B&S) Spherical Slip (WJ-SSJ) Flanged Joint	DN100 (4.8 mm) DN150 (5 mm) DN200 (5 mm) DN250 (5 mm) DN300 (5mm) DN400 (5 mm) DN500 (5 mm) DN600 (6 mm) DN700 (6 mm) DN800 (7 mm) DN900 (7 mm) DN1000 (8 mm) DN1200 (9 mm) DN1400 (11mm)	Sintapipe generally only acceptable where approved on a project-specific basis. In accordance with Water Corporation Design Standard – DS60 andDS63	12/2025

TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORI- SATION EXPIRY DATE
B2 WATER AND NON-DRINKING WATER CONVEYANCE PRODUCTS						
FITTINGS						
7.	Ductile Iron (DI) Pipe Fittings (requires compliance with SPS 106)	Vinidex 17-05-WA/WWA	PN35 Superlink range	DN100 to DN375	DI spigotted fittings not permissible with PVC sockets. Tees – AS/NZS 2280 Fig H13 SP/SP/FL are rated PN16 only	10/2024
			PN16 Superlink II lightweight range	DN100 to DN250	DI spigotted fittings not permissible with PVC sockets.	
		Galvin Engineering 16-01-WA/WWA	PN35 traditional range	DN100 to DN300	DI spigotted fittings not permissible with PVC sockets. Tees – AS/NZS 2280 FIG H13 SP/SP/FL are rated PN16 only.	10/2024
			PN16 lightweight range	DN100 DN150	DI spigotted fittings not permissible with PVC sockets.	

TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
		Derwent Industries 15-07-WA/WWA	PN35 Traditional Range with Tyton style EPDM seals	DN100 to DN750	DI spigotted fittings not permissible with PVC sockets. Tees – AS/NZS 2280 Fig H13 SP/SP/FL are rated PN16 only.	10/2024
			PN20 Socketed Range with Tyton style EPDM seals	DN100 DN150	DI spigotted fittings not permissible with PVC sockets.	
				PN16 Lightweight Range with Tyton style EPDM seals	DN100 to DN750	DI spigotted fittings not permissible with PVC sockets.
		Derwent Industries 19-64-WA	PN16 Derwent Uniclamp Ductile Iron Flanged Offtake Clamps for Series 1 PE Pipe	DN125x80 DN125x100 DN180x80 DN180x100	For use with Series 1 PE pipe only. Only permitted to cut new tee into an existing main. Tapping sizes DN80 - DN100.	10/2024
		Iplex/Crevet 17-06-WA/WWA	PN35 NIBF - Socket and Flanged	DN100 to DN750	DI spigotted fittings not permissible with PVC and GRP sockets. Tees – AS/NZS 2280 Fig H13 SP/SP/FL are rated PN16 only.	10/2024

TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
			PN16 NIBF- Flanged	DN100 to DN750	DI spigotted fittings not permissible with PVC and GRP sockets.	
			PN20 NIBF Lightweight-Crevet SL Socket Fittings	DN100 to DN300	DI spigotted fittings not permissible with PVC sockets.	
			PN16 NIBF Lightweight-Crevet SL Socket with Flange Fittings	DN100 to DN300	DI spigotted fittings not permissible with PVC sockets.	10/2024
		Viadux Water Network Solutions 16-09-WA/WWA	PN16 and PN35 traditional range with Elastomeric Ring Seals “Tyton Style” EPDM	DN100 to DN750	Compatible with any Series 2 PVC and GRP pipes DI spigotted fittings not permissible with PVC or GRP sockets. Tees – AS/NZS 2280 Fig H13 SP/SP/FL are rated PN16 only.	10/2024
			PN16 and PN35 Auslite lightweight range with Elastomeric Ring Seals “Tyton Style” EPDM	DN100 DN150	DI spigotted fittings not permissible with PVC or GRP sockets.	

TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
		Dobbie Dico 17-01-WA/WWA	PN16 and PN35 “G1” Traditional Range	DN100 DN150 DN200 DN250	DI spigotted fittings not permissible with PVC and GRP sockets. TEES – AS/NZS 2280 FIG H13 SP/SP/FL are rated PN16 only.	10/2024
		Dobbie Dico 17-33-WA/WWA	PN16 and PN20 “G2” lightweight range	DN100 DN150	DI spigotted fittings not permissible with PVC sockets.	10/2024
		Hygrade Water 19-73-WA	PN16 Haku Ductile Iron Flanged Offtake Clamps for Series 1 PE Pipe	DN125x80 DN125x100 DN180x80 DN180x100 DN250x80 DN250x100 DN250x150 DN315x80 DN315x150 DN355x150	For use with Series 1 PE pipe only. Tapping sizes DN80, DN100 and DN150 Must be full body and full circumference DI type. Alternative designs that incorporate a thin strap on the underside are not accepted.	10/2024
8.	Polyethylene (PE) and Polypropylene (PP) Pipe Fittings (requires compliance with SPS 125)	Georg Fischer 16-03-WA	PN16 iJoint Compression Fittings	DN63	Suitable for Series 1 PE pipes only. In accordance with Water Corporation Design Standard – DS63	10/2024

TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORI- SATION EXPIRY DATE
		Philmac 17-18-WA	PN16 Philmac 3G Metric Compression Fittings	Adaptors, Couplings, 90° Elbows and Tees: DN63	Suitable for Series 1 PE pipes only. In accordance with Water Corporation Design Standard – DS63	10/2024
		Plasson Australia 17-21-WA	PN16 Plasson Metric Compression Fittings	DN63	Suitable for Series 1 PE pipes only. In accordance with Water Corporation Design Standard – DS63	10/2024
		Plasson Australia 19-60-WA/WWA	PN16 Simona Injection Moulded Polyethylene Spigot Fittings	Bends DN63, 125, 180, 250, 315, 355, 450 Reducers DN63, 125, 180, 250, 315	Tees are not to be used in water applications. All fittings are to be HSCR or equivalent. Electrofusion jointing is only to be used where butt fusion jointing is not possible and requires acceptance by Water Corporation Engineering prior to use. Suitable for Series 1 PE pipes only.	10/2024

TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
		Plasson Australia 19-61-WA/WWA	PN16 Plasson Injection Moulded Polyethylene Electrofusion Fittings	Couplings DN63, 125, 180, 250, 315, 355, 450, 560, 630	Tees are not to be used in water applications. All fittings are to be HSCR or equivalent. Electrofusion jointing is only to be used where butt fusion jointing is not possible and requires acceptance by Water Corporation Engineering prior to use.	10/2024
			PN25 Plasson Injection Moulded Polyethylene Electrofusion Fittings	Couplings DN63, 125, 180, 250, 315, 355	Suitable for Series 1 PE pipes only.	
		AGRU Australia 19-62-WA/WWA	PN16 AGRU Injection Moulded Polyethylene Long Spigot Fittings and Couplers	Bends DN63, 125, 180 Reducers DN63, 125, 180, 250, 315 Electrofusion Couplers DN63, 125, 180, 250, 315, 355, 450	Tees are not to be used in water applications. All fittings are to be HSCR or equivalent. Electrofusion jointing is only to be used where butt fusion jointing is not possible and requires acceptance by Water Corporation Engineering prior to use.	10/2024
			PN25 AGRU Injection Moulded Polyethylene Long Spigot Fittings and Couplers	Electrofusion Couplers DN63, 125, 180, 250, 315	Suitable for Series 1 PE pipes only.	

TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORI- SATION EXPIRY DATE
		Enviropipes	Polyethylene Fittings	Stub Flanges	Stub must be equivalent SDR to the pipe it is joined to To be made from resin of equivalent stress crack resistance and Disinfection Resistance as the pipe they are welded to. In accordance with Water Corporation Design Standard – DS63 Electrofusion jointing is only to be used where butt fusion jointing is not possible and requires acceptance by Water Corporation Engineering prior to use Suitable for Series 1 PE pipes only	
Acu-tech						
David Moss						

TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
9.	Brass Connectors ≤ DN32 for PE Pipes	Zetco	Brass Fittings	Series 6603 TOF Push Tee DN25, DN32, Series 6604 Male x TOF Push Connector DN25 x DN20 and DN 32 x DN25 Series 6605 Male x TOF Push Joiner DN25 and DN 32 Series 6606 Male x TOF Push Elbow DN25 x DN20 Series 6607 Capillary x TOF Push Elbow DN20 x DN25 and DN20 x DN32	Shall only be used with PE pipes. PE pipes must be min PN16	10/2024

TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)		PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
10.	Unrestrained Mechanical Pipe Couplings (requires compliance with AS/NZS 4998 or an acceptable alternative standard for performance testing and product certification.)	AVK Wang	17-36-WA/WWA	PN16 Wang Vari-Gib Unrestrained Pipe Coupling	Straight Coupling DN100 to DN600 Stepped Coupling DN100 to DN300	Can be used with CI, DI, MS, PVC-U/M/O, GRP and AC pipes. can only be used with plastic pipes with the following minimum pressure rating/stiffness: PVC-U – PN12 PVC-M – PN12 PVC-O – PN16 GRP – SN5000	10/2024
		AVK Wang	17-36-WA/WWA	PN16 AVK Supa-Gib Unrestrained Pipe Coupling	Straight Coupling DN100 to DN600 Stepped Coupling DN100 to DN300	Can be used with CI, DI, MS, PVC-U/M/O, GRP and AC pipes.	10/2024
		Iplex				Can only be used with plastic pipes with the following minimum pressure rating/stiffness: PVC-U – PN12 PVC-M – PN12 PVC-O – PN16 GRP – SN5000	
		Reece Plumbing					

TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)		PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
	Unrestrained Mechanical Pipe Couplings (requires compliance with AS/NZS 4998 or an acceptable alternative standard for performance testing and product certification)	AVK Wang	17-37-WA/WWA	PN16 600 Series Unrestrained Pipe Couplings	Straight Coupling DN100 to DN400 Stepped Coupling DN100 to DN300	Can be used with CI, DI, MS, PVC-U/M/O and AC pipes.	10/2024
		Iplex					
		Reece Plumbing					
		Daemco 17-30-WA/WWA	PN16 Daemco Reinoversal Unrestrained Mechanical Couplings	Straight Coupling DN100 to DN600	Can be used with CI, DI, MS, PVC-U/M/O, GRP and AC pipes.	10/2024	
		Derwent Industries 19-71-WA	PN16 Derwent Unrestrained Mechanical Couplings	Straight Coupling DN100, DN150, DN200 & DN250	Can be used with CI, DI, MS, PVC-U/M/O and AC pipes. Can only be used with plastic pipes with the following minimum pressure rating/stiffness: PVC-U – PN12 PVC-M – PN12 PVC-O – PN16	10/2024	

TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
11.	Restrained Mechanical Pipe Couplings (requires compliance with AS/NZS 4998 or an acceptable alternative standard for performance testing and product certification. Restrained couplings also require compliance with an acceptable and appropriate standard to demonstrate axial restraint performance)	Georg Fischer 17-35-WA/WWA	PN16 WAGA Multi Joint Restrained Pipe Couplings	Straight Couplings DN100 to DN300	Can be used with CI, DI, MS, PE and AC pipes. Axially restrained couplings shall be used for joints to PE pipes. Pipe insert stiffeners shall be used for PE pipe joints. Refer to manufacturer's installation specification.	10/2024
		Vinidex 19-67-WA	PN16 Viking Johnson UltraGrip Restrained Mechanical Couplings	Straight Couplings DN40 to DN300 Reducing Couplings DN32/40 to DN250/300	Can be used with CI, DI, MS, PE and AC pipes. Not to be used with GRP and PVC pipes. Axially restrained couplings shall be used for joints to PE pipes. Pipe insert stiffeners shall be used for PE pipe joints. Refer to manufacturer's installation specification	11/2024
12.	Mechanical Tapping Bands (requires compliance with AS/NZS 4793 for performance testing and product certification. For tapping bands for use with polyethylene pipe, requires compliance with ASN/NZS 4129 for performance testing and product certification.)	Iplex 16-20-WA	Milnes Gun Metal Tapping Bands PN16	DN80 – 375	For use with Series 1 PVC, Series 2 PVC, Galvanised Steel, AC and DICL pipes only. Tapping sizes DN15 to DN50	10/2024
		Stockbrands 17-25-WA	PN16 FRP Tapping Bands for Series 2 PVC Pipe	DN100 DN150 DN200 DN250 DN300	For use with Series 2 PVC pipes only. Tapping sizes DN20 to DN50.	10/2023

TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
		Stockbrands 17-25-WA	PN16 FRP Tapping Bands for Series 1 PVC Pipe	DN50 DN80 DN100 DN150 DN200 DN250	For use with Series 1 PVC pipes only. Tapping sizes DN20 to DN50.	
13.	Mechanical Tapping Bands for pipes other than PVC (requires compliance with AS/NZS 4793 for performance testing and product certification. For tapping bands for use with polyethylene pipe, requires compliance with ASN/NZS 4129 for performance testing and product certification.)	Stockbrands 17-25-WA	PN16 FRP Tapping Bands for Series 1 PE Pipe	DN63 DN110 DN125 DN180 DN250 DN315	For use with Series 1 PE pipes only. Tapping sizes DN20 to DN50.	
		Viadux Water Network Solutions 17-38-WA	PN16 Wang Rigi-Tap Stainless Steel Tapping Bands	DN50 DN65 DN80 DN100 DN150 DN200 DN250 DN300	For use on RC pipes only. Tapping sizes DN20 to DN50.	10/2024
		Derwent Industries 20-83-WA	PN16 Derwent Stainless Steel Tapping Bands	DN150 DN225 DN300	For use on RC pipes only. Tapping sizes DN20 to DN50.	12/2025

TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
B3 WATER AND NON-DRINKING WATER CONVEYANCE PRODUCTS						
MISCELLANEOUS						
14.	Service Chambers and Covers (requires compliance with AS 3996 for load testing)	Stockbrands 17-19-WA	GRP Service Chamber – Water Meter/Valve	619 x 504 x 300 mm Class D	In accordance with Water Corporation Standard Drawing BD64-10-1.	10/2024
		Viadux 17-32-WA	Class B lightweight sluice valve DI cover, recycled plastics frame, DN 300 PVC shroud pipe and DI base plate assembly	225 mm internal riser shaft diameter	For non-trafficable verge applications only. In accordance with Water Corporation Standard Drawings AQ71-1-7 and AQ71-1-8. Arrangement as shown on Standard Drawings BD62-2-1 (MMR 20313)	10/2024
		EJ Pty Ltd 17-39-WA	HM108 430x296 Watercorp Meter Box Inspection Cover & Frame HM109 320x196 Watercorp Fire Hydrant Inspection Cover & Frame HM110 Ø89 Watercorp Sluice Valve Inspection Cover & Frame	HM108 HM109 HM110	In accordance with Water Corporation DS63 Standard Drawings AQ71-1-1, AQ71-1-2, AQ71-1-4.	10/2024

TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORISATION EXPIRY DATE
	Service Chambers and Covers (requires compliance with AS 3996 for load testing)	Iplex Historical DS63	Water Corp Cast Iron Items Meter Box Inspection Cover & Frame Hydrant Box Inspection Cover & Frame Stop Tap Inspection Cover & Frame Sluice Valve Inspection Cover & Frame	N/A	In accordance with Water Corporation DS63 Standard Drawings AQ71-1-1, AQ71-1-2, AQ71-1-3 and AQ71-1-4.	10/2024
		Dobbie Dico Historical DS63	Water Corp Cast Iron Items Meter Box Inspection Cover & Frame Hydrant Box Inspection Cover & Frame Stop Tap Inspection Cover & Frame Sluice Valve Inspection Cover & Frame	N/A	In accordance with Water Corporation DS63 Standard Drawings AQ71-1-1, AQ71-1-2, AQ71-1-3 and AQ71-1-4.	10/2024

TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORI- SATION EXPIRY DATE
	Service Chambers and Covers (requires compliance with AS 3996 for load testing)	Galvin Engineering Historical DS63	Water Corp Cast Iron Items Meter Box Inspection Cover & Frame Hydrant Box Inspection Cover & Frame Stop Tap Inspection Cover & Frame Sluice Valve Inspection Cover & Frame	N/A	In accordance with Water Corporation DS63 Standard Drawings AQ71-1-1, AQ71-1-2, AQ71-1-3 and AQ71-1-4.	10/2024
		Viadux Historical DS63	Water Corp Cast Iron Items Meter Box Inspection Cover & Frame Stop Tap Inspection Cover & Frame Sluice Valve Inspection Cover & Frame	N/A	In accordance with Water Corporation DS63 Standard Drawings AQ71-1-1, AQ71-1-3 and AQ71-1-4.	10/2024
15.	Ancillary Tools	Stockbrands 17-19-WA	Stand-up Protector for DN20 Service	Coloured Black with Blue Stripes Coloured Purple	In accordance with Water Corporation Standard Drawing BD64-9-1.	10/2024

TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORI- SATION EXPIRY DATE
	Ancillary Tools	Dobbie Dico 17-34-WA	Stand-up Protector for DN20 Service	Coloured Blue Coloured Purple	In accordance with Water Corporation Standard Drawing BD64-9-1.	10/2024
		Smartstream Technology 17-40-WA	Stand-up Protector for DN20 Service	Coloured Blue Coloured Purple	In accordance with Water Corporation Standard Drawing BD64-9-1.	10/2024
		Stockbrands 17-19-WA	Security Plug for DN20 Service Protector	DN20 Plug Coloured Frog Green	Restricted security item. Available from Water Corporation store in Canning Vale. In accordance with Water Corporation Standard Drawing BD64-9-2.	10/2024
			3-10 Service Manifold Assembly	DN63	In accordance with Water Corporation Standard Drawing BD62-8-9.	

TABLE B Water Conveyance Products

No	COMPONENT	MANUFACTURER - SUPPLIER / AUTHORISATION No (*)	PRODUCT	RANGE	PRODUCT LIMITATIONS / OUTSTANDING APPRAISAL TASKS	AUTHORI- SATION EXPIRY DATE
	Ancillary Tools	Stockbrands 17-19-WA	Complete Copper Riser Assembly	DN20 670 and 340mm Length	In accordance with Water Corporation Standard Drawing BD22-5-8.	

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TABLE C Mechanical Products

Air Valves for Water

Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Single orifice – water	DN 15 - DN 25	2	SPS 200	ARI	S-050, PN16 S-050C, PN16 S-052, PN25 S-015, PN40	Amiad Australia Pty Ltd		
				Dorot	DAV-P-A, PN16	Amiad Australia Pty Ltd		
Combination – water	DN 50 - DN 150	2		ARI	D-040 (Nylon Body), PN16 D-040C (CI Body), PN16 D-050 (CI Body), PN16 D-052 (DI Body), PN25	Amiad Australia Pty Ltd		
				CSA	Fox 3F, PN16, PN35 Fox 3F-RFP, PN16, PN35 Lynx 3F-RFP, PN16, PN35	Bermad Water Technologies	Fox 3 -Full port type Lynx 3- Reduced port (squat-type) RFP- Standard option fitted with a rapid filling preventer	
				Ventomat	RBX, PN16 & PN25 PN25 with Flanges drilled to AS4087 PN21	Ventomat Aus Pty Ltd		
				AVK	Series 851 PN 16-21	Iplex Pipelines Aus Pty Ltd AVK Australia		
				Bermad	C70 PN 16 & PN 35 C30-P PN16	Bermad Water Technologies		
				Dorot	DAV-MH/MS-KA PN16 DAV-MH/MS-KA- PN25 (flanges drilled to AS4087 PN21)	AVFI Pty Ltd		

Product Data Sheet links – Internal Use Only

‡ Internal use only - ‘Category 1’ Valves require engineering technical input and SPS Appendix information to be specified prior to purchase. Refer to [Nexus ID#87464573](#).
‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

* Internal use only- Supplier is not commercially prequalified

TABLE C Mechanical Products – Valves

Air Valves for Sewage

Type	Size	Category	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Combination – sewage	DN 50 - DN 100	2	SPS 201	ARI	D-020 (DI Body) D-020S (SS316 Body) D-23 (DI Body) D-23S (SS316 Body) D-025D (DI Body) D-025S (SS Body)	Amiad Australia Pty Ltd	D-023 valve is a large orifice valve with higher potential flow rate in case of failure	
				CSA	Bermad SCF 2" Compact	Bermad Water Technologies		
					Bermad SCF 50/80	Bermad Water Technologies	Valve weight~30kg	
				Bermad	C50-N (SS316 Body) C50-C (DI Body) C50-G (SS316 + GRN) C50-J (DI +GRN)	Bermad Water Technologies	Smaller body valve with very low static sealing pressure required (~0.5m). Glass Reinforce Nylon (GRN) covered valves listed for trial. DN 100 Cast Iron Mass- 25kg.	June 2022
	AVFI			ARV-3N SS316 L bodied valve	AVFI Pty Ltd	Successful trial at Mandurah Tce pumping main & Rafferty Road (Craig Hay)		
	DN 50 - DN 100							

Product Data Sheet links – Internal Use Only

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‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

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TABLE C Mechanical Products – Valves

Air Valves for Seawater

Type	Size	Category	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Combination - seawater	DN 80 - DN 100	2	SPS 201	Vent Master	PXD, PN16 HDPE bodied combination air valve with SS316 flange connection	PIHA Pty Ltd	Approved for trial. Used on Burrup Seawater System	

Product Data Sheet links – Internal Use Only

‡ Internal use only - ‘Category 1’ Valves require engineering technical input and SPS Appendix information to be specified prior to purchase. Refer to [Nexus ID#87464573](#).
 ‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Swing Check Valves

Product	Type	Size	Category	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date	
Swing Check	Copper alloy - screwed	DN 15 - DN 100	2	SPS 220	Conti- Rubinetterie	Zetco Series 1805 PN25	Zetco Valves Pty Ltd			
	Ductile iron Metal Seat	DN 80 - DN 300	2	SPS 223	Dobbie	PN16 – VSCM16 PN35 – VSCM35	Dobbie Dico Meter Co Pty Ltd The Valve Company			
		DN 350 - DN 900	1							
	Ductile Iron Resilient Seat	DN 80 - DN 300	2		Val-Matic	Series 500, PN16	HMA Flow & Industrial			
		DN 350 - DN 750	1							
		DN 80 - DN 400	2							
	DN 80 - DN 375	2	Karon		RSSC	Challenger Valves & Actuators	Approved for trialling No record of use			
DN 80 - DN 250	2	HIWA	RSFC		AVFI Pty Ltd	Approved for trial – Inform Engineering where installed. NBR disc encapsulation. Wastewater use only (not AS4020 approved).	June 2024			

Product Data Sheet links – Internal Use Only

‡ Internal use only - ‘Category 1’ Valves require engineering technical input and SPS Appendix information to be specified prior to purchase. Refer to [Nexus ID#87464573](#).
‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Dual Flap Check Valves

Type	Size	Category‡	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Wafer - Stainless Steel 316 Body	DN 50 - DN 300	2/1	SPS 226	Stockham	Duo-chek II	Crane Australia Pty Ltd	Valves =>DN150 are Cat 1 unless like-for-like replacement. Specify flow rate, system deceleration, etc. to ensure potential water hammer is considered.	
				Cast Flow	IIIE	Flocontrol Valves & Automation		<u>Caution.</u> Bronze body have non-compliant face to face length and SS 304 spring and hinge/stop pins. Use for like-for-like replacement only
Wafer - Stainless Steel 316/DI/Aluminium Bronze Body	DN 350 - DN 600	1		Stockham	Duo-chek II	Crane Australia Pty Ltd	Larger SS 316 valves available, subject to engineering review.	
Flanged	DN 300 - DN 600	1		Stockham	Duo-chek II	Crane Australia Pty Ltd		

Product Data Sheet links – Internal Use Only

‡ Internal use only - ‘Category 1’ Valves require engineering technical input and SPS Appendix information to be specified prior to purchase. Refer to [Nexus ID#87464573](#).
‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Rapid Response Check Valves

Product	Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Custodian / Review Date
Rapid Response	Short body	DN 300 - DN 1800	1	SPS 230	Crane	Compac-Noz	Crane Australia Pty Ltd	Valve body <= DN300 to be from corrosion resistant stainless steel PREN => 22 Threaded SS seat ring in DI body valve not permitted.	
					NoReVa	NK	Flotech Controls Pty Ltd*		
	Long body	DN 300 - DN 1800	1		Crane	Noz-Chek	Crane Australia Pty Ltd		
					MOKVELD	TKZ-Y	BBJ Technologies Pty Ltd*		
					NoReVa	NB	Flotech Controls Pty Ltd*		

Product Data Sheet links – Internal Use Only

‡ Internal use only - ‘Category 1’ Valves require engineering technical input and SPS Appendix information to be specified prior to purchase. Refer to [Nexus ID#87464573](#).
‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Pressure Relief Valves – Pressure Vessel Applications

Product	Type	Size	Category (‡)y	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Pressure relief	Copper alloy – screwed	≤ DN 50	1	N/A	MACK	7E Series (Old designation 700 Series)	Watercon	Limited product data available	
	Copper alloy – flanged	> DN 50 - DN 100							

Product Data Sheet links – Internal Use Only

‡ Internal use only - ‘Category 1’ Valves require engineering technical input and SPS Appendix information to be specified prior to purchase. Refer to [Nexus ID#87464573](#).
 ‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Pressure Relief Valves – Water Conveyance Applications

Product	Type	Size	Category (‡)y	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Pressure relief	Spring loaded	DN 50, DN 65, DN 80, DN 100, DN 150, DN 200	2	N/A	CSA	VCRA	Bermad Water Technologies	Spring selection required depending on working pressure range.	

Product Data Sheet links – Internal Use Only

‡ Internal use only - ‘Category 1’ Valves require engineering technical input and SPS Appendix information to be specified prior to purchase. Refer to [Nexus ID#87464573](#).
 ‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Inline (Axial) Control Valves

Product	Type	Size	Category (‡)y	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Axial Control Valves	Flow, Level (Altitude) and Pressure (PSV/PRV) Control	DN 150 - DN 1200	1	SPS 241	Polyjet	810 and 811316 (SS trim)	Watercon	Technical Support – Mack Valves Pty.Ltd Limited product data available	
					Mokveld	RZD-R	BBJ Technologies Pty Ltd.*		
					VAG	Riko (Factory Standard Materials)	Metaval Engineering Sales	DN 200 Scour Valve – factory standard materials and coatings. Scour applications only.	
					VAG	Riko	Metaval Engineering Sales		
					Erhard	RKV	Ebro Armaturen Pacific Pty Ltd		
	Cone Dispersion Valve (Free Discharge)	DN 150 - DN 3000	1	N/A	VAG		Metaval Engineering Sales	Detailed product appraisal and application analysis required for each application.	
					AVK/ Glenfield		AVK Australia		

Product Data Sheet links – Internal Use Only

‡ Internal use only - ‘Category 1’ Valves require engineering technical input and SPS Appendix information to be specified prior to purchase. Refer to [Nexus ID#87464573](#).
‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Globe Type Control Valves & Flow Restricting Devices

Product	Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Globe Valves Pilot operated	Pilot operated -Flow, Level (Altitude), Pressure Reducing, Pressure Sustaining & Surge Control	DN 50 - DN 300	2 (DN 40- DN 150)	SPS 240	MACK	13112A Series	Watercon	Limited product data available Refer performance correspondence.	
		DN 40 - DN 600	1 (DN 200-DN 800)		Dorot	Series 300 Model 30 & 31	Amiad Australia Pty Ltd		
		DN 40 - DN 900			Bermad	700 & 800 Series	Bermad Water Technologies Watering Concepts		
		DN 40 - DN 900			CLA-VAL	Models 100-01 , -02 , -03 , 100-04 (full port) 600 Series (reduced port)	Challenger Valves & Actuators	Refer performance correspondence.	
					Singer	Model 106/206 FR	Hygrade Water	HOLD - Performance Correspondence	
Flow Restricting Device	Orifice Flow Restrictor Screwed, Wafer or Insert type	DN 25 - DN 300	2	N/A	Maric	Select pressure rating and connection type according to application.	Maric Flow Control * Braeco Sales Flocontrol Valves & Automation	Caution- Noise attenuation may be required Minimum pressure loss ~10m, not for general pumped pressure sustaining use.	

Product Data Sheet links – Internal Use Only

‡ Internal use only - ‘Category 1’ Valves require engineering technical input and SPS Appendix information to be specified prior to purchase. Refer to [Nexus ID#87464573](#).
‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Vacuum Interface Valves, Vacuum Isolation Valve

Type	Size	Category	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Vacuum Interface Valves	DN 50	2	N/A	Airvac	AV 2000	Airvac Australia* Watercon	50mm valve - Special applications only. E.g. vacuum pump station sump.	
	DN 80	2	SPS 245	Flovac	FV 80	Flovac Vacuum Sewerage Systems (Pty) Ltd*		
	DN 80	2	SPS 245	Airvac	AV3	Airvac Australia*		
Vacuum Isolation Valve	DN 80, DN100	2	N/A	Ozvalves	Pushpull valve	Ozvalves	Malaga, Perth Confirm Size – Standard drawing is DN80	

Product Data Sheet links – Internal Use Only

‡ Internal use only - ‘Category 1’ Valves require engineering technical input and SPS Appendix information to be specified prior to purchase. Refer to [Nexus ID#87464573](#).
‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Valves & Fittings for Chemical Dosing Systems

Product	Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Various Valves, Fittings, Actuators, Brackets, and Accessorises etc.	All	All	2	N/A	Georg Fischer (only use GF actuators- where required)	Various	Viadux Pty Ltd	Valves, actuators, pipe fittings and accessories for chemical systems shall be: 1. Supplied where possible from the one of the authorised makes listed 2. Suited for the chemical, concentration, pressure, frequency of operation and environmental conditions 3. Procured where practical on a single supplier system per site or project basis. 4. Only GF, Burkert and Valpes Actuators are approved for use.	
					Stubbe (only use Valpes actuators- where required)		Braeco Sales		
					Asahi (only use Burkert actuators- where required)		Fusion Piping		
					Hayward (only use EAU and ECP Series actuators)		Hayward		

Product Data Sheet links – Internal Use Only

‡ Internal use only - ‘Category 1’ Valves require engineering technical input and SPS Appendix information to be specified prior to purchase. Refer to [Nexus ID#87464573](#).
‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

Notes

1. Specifier to inform the supplier of: type, concentration, pressure, temperature and flow rate of chemical / solution being conveyed
2. Vented ball valves for Hypochlorite solutions shall be drilled on the upstream side, by the manufacturer or supplier in accordance with manufacturer’s quality plan.
3. A Production leak test at 1.1 times AOP shall be carried out on each valve for drip tight sealing. Valves shall be marked with permissible flow direction.

Valves & Fittings for Chemical Dosing Systems

Product	Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Drain Valve for Chemical Bund	All	All	2	N/A	Asahi	Type 57 (brochure)	Fusion Piping	Valves, actuators, pipe fittings and accessories for chemical systems shall be: 1. Supplied where possible from the one of the authorised makes listed 2. Suited for the chemical, concentration, pressure, frequency of operation and environmental conditions 3. Procured where practical on a single supplier system per site or project basis. 4. Only GF, Burkett and Valpes Actuators are approved for use.	

Product Data Sheet links – Internal Use Only

‡ Internal use only - ‘Category 1’ Valves require engineering technical input and SPS Appendix information to be specified prior to purchase. Refer to [Nexus ID#87464573](#).
 ‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

Notes

1. Specifier to inform the supplier of: type, concentration, pressure, temperature and flow rate of chemical / solution being conveyed
2. A Production leak test at 1.1 times AOP shall be carried out on each valve for drip tight sealing. Valves shall be marked with permissible flow direction.

TABLE C Mechanical Products – Valves

Ball Valves – Mains Tapping

Product	Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Ball – 2 Way (metal unless otherwise shown)	Mains Tapping Ball Valves (Hot Tapping)	DN 20 - DN 25	2	SPS 251	Effebi	Zetco Series 1096	Zetco Valves Pty Ltd Stockbrands Co. Pty Ltd Iplex Pipelines Aus Pty Ltd Viadux Pty Ltd		
					Logi	WMBWA Series	Austworld Pty Ltd		
	Mains Tapping Ball Valves (Dry Tapping only)	DN 20 - DN 25	2	SPS 251	Effebi	Zetco Series 1238	Zetco Valves Pty Ltd Stockbrands Co. Pty Ltd Iplex Pipelines Aus Pty Ltd Viadux Pty Ltd	Mains Tapping Valves with male threaded inlet and compression fitting outlet suitable for connecting to PE piping (for dry tapping only).	
					Strongcast	Model C8423	Strongcast Pty Ltd		
					Logi	WPEMWA Series	Austworld Pty Ltd		

Product Data Sheet links – Internal Use Only

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‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Ball Valves – General Purpose

Product	Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Ball – 2 Way	General Purpose (GP)- Copper Alloy Body	DN 15 - DN 50	2	SPS 252	Effebi	Zetco Series 1094	Zetco Valves Pty Ltd Stockbrands Co. Pty Ltd Iplex Pipelines Aus Pty Ltd Viadux Pty Ltd		
		DN 15 - DN 50	2	SPS 252	Logi	WFSS Series	Austworld Pty Ltd		
	General Purpose Ball Valves – Stainless Steel Body	DN 15 - DN 50	2	SPS 252	Zetco	Zetco Series 4494	Zetco Valves Pvt. Ltd		
		DN 15 - DN 50	2	SPS 252	Swagelok	60 Series (3 Piece BV)	Swagelok Western Australia*	SS 316 bodied ball valves with SS316 Lever handle and nut. Not Appraised.	
					Yzng Trong	V-2Bs (2 Piece BV) V-3As (3 Piece BV)	Braeco Sales		
	XXC	RV2 (2 Piece BV) RV3 (3 Piece BV)	Challenger Valves & Actuators						

Product Data Sheet links – Internal Use Only

‡ Internal use only - 'Category 1' Valves require engineering technical input and SPS Appendix information to be specified prior to purchase. Refer to [Nexus ID#87464573](#).
'Category 2' Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Meter Ball Valves

Product	Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Ball – 2 Way (metal unless otherwise shown (Contd.)	Right angle meter service	DN 20 - DN 25 F&F	2	SPS 254	Effebi	Zetco Series 1248	Zetco Valves Pty Ltd Stockbrands Co. Pty Ltd Iplex Pipelines Aus Pty Ltd Viadux Pty Ltd		
		DN 20 F&F	2		Maxiflo/app Flo	VBBDA20	AAP Industries*		
		DN 20 - DN 25 F&F	2		Logi	WRAFWA Series	Austworld Pty Ltd		
	Inline meter service	DN 20 - DN 25 M&F	2		Effebi	Zetco Series 1096	Zetco Valves Pty Ltd Stockbrands Co. Pty Ltd Iplex Pipelines Aus Pty Ltd Viadux Pty Ltd		
		DN 20 - DN 25 M&F	2		Logi	WBMBWA Series	Austworld Pty Ltd		

Product Data Sheet links – Internal Use Only

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‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Copper Alloy Gate Valves

Product	Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Gate - Copper Alloy	Screwed	DN 15 - DN 50	2	SPS 255	Tour & Anderson	Series 1703	Zetco Valves Pty Ltd Stockbrands Co. Pty Ltd Iplex Pipelines Aus Pty Ltd Viadux Pty Ltd		
		DN 15 - DN 100	2		Conti Rubinetterie	Zetco Series 1706	Zetco Valves Pty Ltd Stockbrands Co. Pty Ltd Iplex Pipelines Aus Pty Ltd Viadux Pty Ltd		
		DN 15 - DN 100	2		Logi	GV15-GV100	Austworld Pty Ltd		

Product Data Sheet links – Internal Use Only

‡ Internal use only - ‘Category 1’ Valves require engineering technical input and SPS Appendix information to be specified prior to purchase. Refer to [Nexus ID#87464573](#).
‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Knife Gate Valves

Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Standard Service – Non Bonneted PN10	DN 50 - DN 600	2	SPS 259	Keystone	Figure 952 (All stainless steel)	Emerson Automation Solutions		
				VAAS (or Bray)	740	Bray Controls Pacific Pty Ltd*		
				Stafsjo	WB14-E	Ebro Armaturen Pacific Pty Ltd		
	DN 50 - DN 250			AVFI	KGV-UHD-WCSS	AVFI Pty Ltd		
	DN 50 - DN 900			Orbinox	BT	AVK Australia	Full appraisal of product required	
Standard Service – Non-bonneted PN6	DN 750 - DN 900	1	SPS 259	Keystone	Figure 952	Emerson Automation Solutions		
				VAAS (or Bray)	740	Bray Controls Pacific Pty Ltd*	Approved for trial	
Standard Service – Non-bonneted PN7	DN 300 - DN 450	2		AVFI	KGV-UHD-WCSS	AVFI Pty Ltd		
Standard or Corrosive Service – Fully bonneted PN10	DN 100 - DN 500	2	SPS 259	VAAS (or Bray)	987L	Bray Controls Pacific Pty Ltd*	These valves are heavy and strength of supporting pipe to be considered	
Fully bonneted Corrosive Service for Gravity Sewer Application only	DN 100 - DN 600	2	SPS 259	Stafsjo	XVE Series Encapsulated Bridge Type	Ebro Armaturen Pacific Pty Ltd	Caution: Bonnet Pressure Rating 1 Bar Only. Downstream mating flanges must be used for end of line service.	

Product Data Sheet links – Internal Use Only

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‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Butterfly Valves – Wafer & Lugged Type

Type	Size	Category ‡	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Wafer (PN16 Only)	DN 50 - DN 300	2	SPS 260	Bray	Series 30	Bray Controls Pacific (Pty) Ltd		
				Keystone	GRW (D12E AD FBE)	Emerson Automation Solutions		
				Value Valves	VF-730	Braeco Sales		
				Wouter Witzel	EVBS	AVK Australia		
				AVK	Series 76	AVK Australia		
				DIMAX	Series 2302	Reece Australia Pty Ltd	Recently included and approved for use. Feedback sought, verification required.	
				Challenger	Series BFWE	Challenger Valves & Actuators		
	DN50 - DN600			Ebro	Z011-A	Ebro Armaturen Pacific Pty Ltd		
Lugged	DN 50 - DN 300			DIMAX	Series 2502	Reece Australia Pty Ltd	Recently included and approved for use. Feedback sought, verification required.	
	DN 50 - DN 500			Wouter Witzel	EVTLS	AVK Australia		
				Challenger	Series BFWE	Challenger Valves & Actuators		
	DN 50 - DN 500			AVK	Series 76	AVK Australia	On hold pending AS4795.1 type testing certification	

Product Data Sheet links – Internal Use Only

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‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Butterfly Valves- Double Flanged Seal On Body

Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Supplier Product Limitations/ Outstanding Performance Reviews	Review Date
Double Flanged, Seal on body, PN 16	DN 100 - DN 1050	All Type A Butterfly Valves ≤DN600 are Cat 2	SPS 261	Keystone	F631-16	Emerson Automation Solutions		
	DN 80 - DN 500			AVK	Series 813	Iplex Pipelines Aus Pty Ltd		
	DN 100 - DN 2000	All Butterfly valves except Type A ≤DN600 are Cat 1		Ebro	F012A	Ebro Armaturen Pacific Pty Ltd		
	DN 50 - DN 1200			Wouter Witzel	Series 75 (EVFS)	AVK Australia	Details of gearbox and drive train for buried service applications are to be appraised and agreed	
	DN 80 - DN 1400			AFFCO	S460	Flocontrol Valves & Automation	New manufacturer, product verification required. Drawing appraisal required for ≥DN800 (PN16), Refer correspondence .	
Double Flanged, Seal on body, PN 21	DN 300 - DN 600		SPS 261	Keystone	F631-21	Emerson Automation Solutions	Caution -Face to Face dimensions are not to AS4795.2 (shorter). Use restricted to replacements or where space is restricted	
	DN 100 - DN 1400			Ebro	F012A	Ebro Armaturen Pacific Pty Ltd		
	DN 50 - DN 1200			Wouter Witzel	Series 75 (EVFS)	AVK Australia	Details of gearbox and drive train for buried service applications are to be appraised and agreed	
	DN 80 - DN 1400			AFFCO	S460	Flocontrol Valves & Automation	New manufacturer, product verification required Drawing appraisal required for ≥DN1000 (PN21), Refer correspondence .	

Product Data Sheet links – Internal Use Only

‡ Internal use only - ‘Category 1’ Valves require engineering technical input and SPS Appendix information to be specified prior to purchase. Refer to [Nexus ID#87464573](#).
‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

Note – PN21 valves may be PN25 rated with flanges drilled to AS4087 PN21

TABLE C Mechanical Products – Valves

Butterfly Valves - Double Flanged Seal-On-Body

Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Supplier Product Limitations/ Outstanding Performance Reviews	Review Date
Double Flanged, Seal on body, PN 25 (flanged to EN 1092)	DN 100 - DN 1400			Ebro	F012A	Ebro Armaturen Pacific Pty Ltd		
	DN 500 - DN 1200			Wouter Witzel	Series 75 (EVFS)	AVK Australia	Details of gearbox and drive train for buried service applications are to be appraised and agreed	
	DN80 – DN1400			AFFCO	S460	Flocontrol Valves & Automation	New manufacturer, product verification required Drawing appraisal required for all PN25 valves. Refer correspondence.	

Product Data Sheet links – Internal Use Only

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‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

High Performance & Dam Guard Butterfly Valves

Product	Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
High Performance Butterfly Valves Double Flanged (Seal on disc)	Double Eccentric, Stainless Steel Disc	DN 300 - DN 2000	1	SPS 262	Erhard	ROCO Wave (Previously EAK)	Ebro Armaturen Pacific Pty Ltd	Quotations may be sought but full re-appraisal required.	
					VAG	EKN	Metaval Consolidated Pty Ltd		
					OZKAN	AVH7.1	Flocontrol Valves & Automation (Hygrade Water – distributor)	Installed in Ravenswood PS	
Butterfly Guard Valves (Double flanged seal on disc)	Butterfly valves for extreme velocity applications/ (Dam guard valves)	DN 300 - DN 2000	1	SPS 263	Erhard	ROCO Wave	Ebro Armaturen Pacific Pty Ltd	Detailed product appraisal and application analysis required for each valve purchased. Valve design will depend on maximum fluid velocity. Specification includes counterweight and hydraulic control system details.	
					VAG		Metaval Consolidated Pty Ltd		

Product Data Sheet links – Internal Use Only

‡ Internal use only - ‘Category 1’ Valves require engineering technical input and SPS Appendix information to be specified prior to purchase. Refer to [Nexus ID#87464573](#).
‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Metal Seated Gate Valves

Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Double Flanged PN16	DN 80 - DN 500	2	SPS 271	Dobbie	VGM16	Dobbie Dico Meter Co Pty Ltd		
	DN 600 - DN 1800	1						
	DN 600			John Valves	FIG 600	John Valves Pty Ltd	New to SPR. Verification feedback required. Refer to Nexus ID#174291347	
Double Flanged with Integral Bypass PN16	DN 450 DN500 DN600 DN700 DN750 DN900	1		Dobbie	VGM16 (Integral Bypass)	Dobbie Dico Meter Co Pty Ltd	Integral bypass valve eliminates the need for separate bypass pipework. ~ 15% higher cost than standard valve, but this includes integral bypass valve and bends. Note DN450 is also available	
Double Flanged - PN35	DN 80 - DN 500	2		Dobbie	VGM35	Dobbie Dico Meter Co Pty Ltd.		
	DN 600 - DN 1800	1						
Double Flanged with Integral Bypass PN35	DN450 DN500 DN600 DN700 DN750 DN900	1		Dobbie	VGM35 (Integral Bypass)	Dobbie Dico Meter Co Pty Ltd	Integral bypass valve eliminates the need for separate bypass pipework. ~ 15% higher cost than standard valve, but this includes integral bypass valve and bends. Note DN450 is also available	

Product Data Sheet links – Internal Use Only

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‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

Note - In smaller sizes and benign service (moderate differential pressure, non- throttling, etc). Resilient Seated Valves may be selected at lower cost.

TABLE C Mechanical Products – Valves

Resilient Seated Gate Valves - Double Flanged PN16

Product	Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date		
Resilient Seated Gate Valves	Double Flanged PN16	DN 80 - DN 600	2	SPS 272	AVK	Series 570/90 (key cap)	Iplex Pipelines Aus Pty Ltd. AVK Australia	AVK Series 570 & Sureflow Auslite III are PN16 reduced weight gate valves *Water Corporation to review potential size limitation			
		DN700 – DN750	1			Series 570/92 (Gearbox Mount) (DN80 - DN400) Series 570/92 (Gearbox Mount) (DN450 - DN750) Series 570/98 (Handwheel)					
		DN 80 - DN 400	2			Sureflow Auslite III				Viadux Pty Ltd	
		DN 450 - DN 600	2			Sureflow Figure 500				Viadux Pty Ltd	Key cap, Handwheel & gearbox operation options available
		DN 80 - DN 600	2			Karon RSGVA				Challenger Valves & Actuators	*Water Corporation to review potential size limitation
		DN 700 - DN 750	1								

Product Data Sheet links – Internal Use Only

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‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Resilient Seated Gate Valves Double Flanged PN16 (Contd.)

Product	Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Resilient Seated Gate Valves	Double Flanged PN16	DN 80 - DN 600	2	SPS 272	Derwent	VFF	Derwent Industries International Pty Ltd*	Key cap, Handwheel & gearbox operation options available	
		DN 50 - DN 300	2		Hawle	E3	Hygrade Water * Emerson Automation Solutions		
		DN 100 - DN 400	2		Dobbie	VGR16FB1	Dobbie Dico Meter Co Pty Ltd		
		DN 80 - DN 600	2		AVFI	RSGV-AS	AVFI Pty Ltd		
		DN 80 - DN 600	2		Betta	VGFF	Clover Pipelines Pty Ltd*		
		DN 80 - DN 600	2		DIMAX	3250R	Reece Australia Pty Ltd*		

Product Data Sheet links – Internal Use Only

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‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Resilient Seated Gate Valves – Double Socket Ends PN16

Product	Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Resilient Seated Gate Valves	Double Socketed PN16	DN 80 - DN 375	2	SPS 272	AVK	Series 570/50	Iplex Pipelines Aus Pty Ltd AVK Australia	PN16 reduced weight gate valves	
		DN 100 - DN 150	2		Sureflow	Auslite	Viadux Pty Ltd		
		DN 100 - DN 375	2		Sureflow	Figure 500	Viadux Pty Ltd		
		DN 100 - DN 400	2		Dobbie	VGR16SB1	Dobbie Dico Meter Co Pty Ltd		
		DN 100 - DN 200	2		Hawle	E2	Hygrade Water Emerson Automation Solutions		
		DN 100 - DN 375	2		Betta	VGSS	Clover Pipelines Pty Ltd*		
		DN 100 - DN 150	2		DIMAX	3950R	Reece Australia Pty Ltd*		
		DN 100 - DN 150	2		Karon	RVSOC	Challenger Valves & Actuators		
		DN 80 - DN 300	2		Derwent	VSOSO	Derwent International Pty Ltd*		

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‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Resilient Seated Gate Valves – Double Spigotted & Flange & Socketed Ends PN16

Product	Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Resilient Seated Gate Valves	Double Spigotted PN16	DN 80 - DN300	2	SPS 272	Derwent	VSS	Derwent International Pty Ltd*	Not for new works, repair use only. Anchor block or restrained coupling required.	
		DN 80 - DN 300	2		Sureflow	Figure 500	Viadux Pty Ltd		
		DN 80 - DN 300	2		AVK	Series 570/60	Iplex Pipelines Aus Pty Ltd AVK Australia		
		DN 100 - DN 150	2		Betta	VGPP	Clover Pipelines Pty Ltd*		
		DN 100 - DN 150	2		DIMAX	3050R	Reece Australia Pty Ltd*		
Resilient Seated Gate Valves	Flange & Socketed PN16	DN 80 - DN 150	2	SPS 272	AVK	Series 570/70	Iplex Pipelines Aus Pty Ltd AVK Australia	PN16 reduced weight gate valves	
		DN 80 - DN 300	2		Sureflow	Figure 500	Viadux Pty Ltd		
		DN 80 - DN 300	2		Derwent	VFSOC	Derwent International Pty Ltd*		
		DN 100 - DN 150	2		Betta	VGSE	Clover Pipelines Pty Ltd*		

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'Category 2' Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Resilient Seated Gate Valves – Flanged Ends – PN25

Product	Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Resilient Seated Gate Valves	Double Flanged PN25	DN 80 - DN 300	2	SPS 272	AVK	Series 57/80 Series 57/82	Iplex Pipelines Aus Pty Ltd AVK Australia 57/80- Key Cap option 57/82- Gear box mount with F10 Flanges	Flanges to AS4331 (PN25) Drilled to AS2129 Table F (PN21)	
					DIMAX	3252R	Reece Australia Pty Ltd*	Drilled to AS2129 Table F (PN 21)	

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‡ Internal use only - ‘Category 1’ Valves require engineering technical input and SPS Appendix information to be specified prior to purchase. Refer to [Nexus ID#87464573](#).
‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Gate Valve – Under Pressure Install Resilient Seated Gate Valve – PN16

Product	Type	Size	Category	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Innovative Line Pressure Install Gate Valve	-	DN100 - DN250	1	272		S-Gate Valve	Saltire Infrastructure Pty Ltd (WA authorised installer - <i>Valves and Hydrants</i> Panel) (Imported by CNS Engineering Australia)	Refer Limitations Below Installed in Port Hedland (contact is Aaron Ducas)	31/12/2023

Product Data Sheet links – Internal Use Only

‡ Internal use only - ‘Category 1’ Valves require engineering technical input and SPS Appendix information to be specified prior to purchase. Refer to [Nexus ID#87464573](#).
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Guidance and Limitations on Supply and Use

The *S- Gate Valve* is an innovative Under Pressure Install Gate Valve, which can be installed to provide isolation of a water or Sewage main without interrupting service.

The valve has received WSAA appraisal and was assessed as compliant with AS2638 Gate Valves for waterworks purposes (bonnet, spindle, gate), AS4020 (drinking water compliance) and AS4181 (Repair and Offtake Clamps).

The S-Gate Valve shall only be installed by an authorised installer who has the required equipment training and experience in its use and has a service agreement Corporation’s *Valves and Hydrants* panel.

As long-term performance and reliability is not yet proven, the S-Gate valve should only be used where significant customer, cost or environmental impacts are mitigated by avoiding a shutdown.

The *S-Gate Valve* does not provide ‘end-of-line’ capability and a minimum of 9m of buried continuous pipe in undisturbed ground is required, to provide axial restraint, prior to a cut in. Alternatively, a suitable valve anchor block, against firm ground, is required.

The valve also requires greater cover than a conventional valve, for example a DN250 S-Gate spindle cap is 638mm above the pipe compared to ~500mm for a conventional valve.

Valves shall be supplied with ‘anti-clockwise closing’ operation.

Valves are thought to be compatible with the following pipes commonly used in Western Australia: <https://nexus.watercorporation.com.au/otcs/cs.exe/app/nodes/133543324>

TABLE C Mechanical Products – Valves

Diaphragm Valves, Plug Valves, Hydrants & Penstocks

Product	Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Diaphragm Valves	Straight-through	DN 15 - DN 200	2	N/A	Saunders	KB type	Crane Australia Pty Ltd		
	Weir	DN 15 - DN 200	2	N/A	Saunders	A type	Crane Australia Pty Ltd		
Plug Valves	Eccentric	DN 100 - DN 500	2	N/A	DeZurik	PEC	The Valve Company	Not appraised to any SPS	
		DN 600 - DN 900	1					Where used for continuous throttling control, valves should be =>20% open.	
		DN 65 - DN 300	2	N/A	AVK	Series 764	AVK Australia	Liner material application dependent, use spec sheet. Install AVK make horizontally to prevent damage from suspended solids (refer to IOM). Dezurik: all applications AVK: water and sewage (excluding sludge and grit)	
Hydrant	Screw down with loose jumper valve (refer drawing BD22-1-1)	DN 100 with 80mm nominal bore	2	SPS 292	AVK Australia	Series 29/088	Iplex Pipelines Aus Pty Ltd AVK Australia		
					Dobbie	UHV16	Dobbie Dico Meter Co. (WA) Pty Ltd		
					Sureflow	WA Style hydrant isolator	Viadux Pty Ltd		
Penstocks	Stainless Steel	Size is job specific	1	SPS 295	AWMA	Various	AWMA Pty Ltd*	Custom build to order	
					AWE		Australian Water Engineers*	Installed in Beenyup WWTP Tank 18	

Product Data Sheet links – Internal Use Only

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'Category 2' Valves may, subject to appropriate technical consideration, be purchased directly

TABLE C Mechanical Products – Valves

Valves & Fittings for Instrumentation & Control (Tubing/Piping) Systems

Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Various valves (Ball, needle, check, single block & bleed, double block and bleed valves) and fittings made of Stainless Steel and Copper—with metric /imperial compression or Screw (ISO/NPT) end connections	2-50mm	2 Note	N/A	Swagelock	Various	Swagelock Western Australia *	Various valves, fittings and accessories for instrumentation shall be: 1. Supplied from one of the authorised makes listed 2. Suited for the fluid, concentration, pressure, frequency of operation and environmental conditions 3. Procured where practical on a single supplier system, per site or project basis.	
	2-14mm			AT&D	Various	AT&D Valves Australia*		
Stainless Steel Tubes & Fittings	Various	2	N/A	Hoke Gyrolock		Prochem Pipeline Products	Suitable for use in outdoor applications that require SS tubes and fitting for compression or screw end connections (e.g. diesel fuel lines)	

Product Data Sheet links – Internal Use Only

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‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

Note - The user shall specify the materials of construction (Stainless Steel, Copper,) and the end connections [Screw to ISO /NPT or Compression to imperial/metric] to suit the piping/tubing system.

TABLE C Mechanical Products – Valves

Valves for Booster Pump Stations*

Product	Type	Size	Category (‡)	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Isolating Valves – Ball	316SS 2 PCS (40 BAR)	≤ DN50	2		Zetco	Series 4400	Zetco	Watermark Valve	
Isolating Valves – Butterfly	Wafer, epoxy coated, 316 S/S shaft and disc PN16	DN65 – DN100	2		Dura	HVAC-R	Reece Australia	Watermark Valve	
Isolating Valves – Butterfly	316 S/S shaft and disc (16 BAR max)	DN125	2		ARI-ZESA	ARI-ZESA	ARI-ZESA	Use SPS 260 Lugged Wafer valves for manifold isolation.	
Non Return Valves	GNVP POM (polyoxymethylene, 16 BAR max)	DN32- DN40	2		Grundfos	Grundfos NRV- GNVP (Page 3-4)	Grundfos Pumps Pty Ltd	Preferred, generally better Kv than Socla and Gestra. Refer: https://nexus.watercorporation.com.au/otcs/cs.exe/link/142513280	
Non Return Valves	316SS (40 BAR)	DN50- DN100	2		Socla	812XL	Socla	Use Duocheck Valves for =>DN80	
Non Return Valves	316SS (40 BAR)	DN100	2		Gestra	RK86-RK86A	Gestra AG		

Product Data Sheet links – Internal Use Only

‡ Internal use only - ‘Category 1’ Valves require engineering technical input and SPS Appendix information to be specified prior to purchase. Refer to [Nexus ID#87464573](#).
‘Category 2’ Valves may, subject to appropriate technical consideration, be purchased directly

* Ball, Butterfly and Non-Return valves listed generally in the SPR may also be used for Booster Pump Stations

TABLE C Mechanical Products – Pumps

Pumps - End Suction Centrifugal

Type	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Custodian / Review date
ISO End Suction Centrifugal Pumps	Minor PS	SPS 500	Grundfos	NKG	Grundfos Pumps Pty Ltd	Re-appraisals required. End suction pumps to be made from corrosion resistant materials, refer SPS 500	
			Southern Cross	Sovereign ISO-PRO	Pentair Water Australia Pty Ltd		
			Stalker Pumps	ISO 2858 (dc) Series	Stalker Pumps		
			Sulzer	AHLSTAR LC	Sulzer Australia Pty Ltd		
			KSB	MCPK	KSB Australia Pty Ltd		
End Suction Centrifugal Motor Pumps (Close Coupled)	Minor PS	SPS 501	Southern Cross	Star-Line	Pentair Water Australia Pty Ltd		
			Stalker Pumps	ISO 2858 (cc) Series	Stalker Pumps		
			Sulzer	AHLSTAR CC (Close Coupled)	Sulzer Australia Pty Ltd		

Product Data Sheet links – Internal Use Only

TABLE C Mechanical Products – Pumps

Pumps - Vertical Multistage Centrifugal

Type	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Vertical Multistage Electric	Minor PS	SPS 506	Grundfos	CRN	Grundfos Pumps Pty Ltd		
			Grundfos	CRN-E	Grundfos Pumps Pty Ltd	Integral VSD Motor – Preferred for Standard Booster Pump Stations	
			Southern Cross	PVM(X)	Pentair Water Australia Pty Ltd		
			Lowara	E-SV Range N Series	Xylem Water Solutions Australia Ltd		
			KSB	Movitec VSF	KSB Australia Pty Ltd		

Product Data Sheet links – Internal Use Only

TABLE C Mechanical Products – Pumps

Pumps - Submersible Borehole

Type	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Custodian / Review Date
Submersible electric borehole ^{Note 1}	Minor/ Major	SPS 507	Wilo pump and motor	EMU D / SCH / K / KM / DCH Actun ZETOS-K , Sub TWI	Wilo Australia Pty Ltd		
			Grundfos pump and motor	SP (N Series)	Grundfos Pumps Pty Ltd	Pumps with the suffix N are required, motors with suffix R or N are required.	
			Pleuger pump and motor	NE, NB, QN, NN, PN Series pumps: M, Mi VNi and VN Series motors	Pump Power Australia Pty Ltd		
			Southern Cross pump	NA Series	Pentair Water Australia Pty Ltd		
			Dynapump pump	Flow-Max	Dynapump		
			REDA pump and motor	Series N, P	Schlumberger Oilfield Australia Pty Ltd		
			Stalker	Vertical series - standard & heavy duty	Stalker Pumps		
			KSB	UPA	KSB Australia Pty Ltd		
Caprari	E6SX, E8PX, E10PX, E12PX	Caprari Pumps Australia Pty Ltd					
Line shaft borehole ^{Note 1}	Minor PS	N/A	Southern Cross	LA Series	Pentair Water Australia Pty Ltd		

Product Data Sheet links – Internal Use Only

Note

1. Corporation line shaft turbine pumps are generally engine driven but may be electric motor driven.
2. Minimum casing diameter dependant on size of electrical cable. Consult manufacturer before purchase.

TABLE C Mechanical Products – Pumps

Borepump - flexible riser column

Type	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Custodian / Review Date
Flexible Riser Pipes, Fittings & Accessories Note 2	ID=51-152mm	N/A	Angus Wellmaster	Wellmaster 250	Grundfos Pumps Pty Ltd Pentair Water Australia Pty Ltd Keto Pumps	Max. Operating Pressure of 250m Minimum casing diameter ~1.5 x nominal hose size	
	ID=40-250mm	N/A	Flexibore 250	Flexibore 250	Crusader Hose Pty Ltd	Max. operating Pressure of 37 bar & installation depth of 250m (dependent on pipe size) Minimum casing diameter ~1.5 x nominal hose size	
	ID=32-203mm	N/A	TIPSA	Oroflex Well	Maze Industrial	Max. Operating Pressure 35 bar & installation depth of 260m (dependent on pipe size) Minimum casing diameter ~2 x nominal hose size (dependent on pipe size).	
	ID=50-150mm	N/A	Kalpumps	Kalflex	Kalpumps Pty Ltd	Max. Operating Pressure 35 bar & installation depth of 260m (dependent on pipe size) Minimum casing diameter ~2 x nominal hose size (dependent on pipe size).	

Product Data Sheet links – Internal Use Only

Note

1. Corporation line shaft turbine pumps are generally engine driven but may be electric motor driven.
2. Consult manufacturer before riser sizing.

TABLE C Mechanical Products – Pumps

Axially Split Casing Pumps

Type	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Axially Split Casing Pumps	Minor/ Major PS	SPS 515	KSB	RDLO	KSB Australia Pty Ltd		
			KSB	Omega	KSB Australia Pty Ltd	Installed in Picton WTP Clearwater PS	
			Sulzer	Scanpump Z22	Sulzer Australia Pty Ltd		
			Sulzer	SMD	Sulzer Australia Pty Ltd		
			Torishima		AFH	Full appraisal required as part of any tender process	
			Clyde Pumps	Uniglide	Celeros Flow Technologies	Supplier Activity Unknown	
			Additional suppliers/products to be investigated and appraised as part of next major pump station project.				

Product Data Sheet links – Internal Use Only

TABLE C Mechanical Products – Pumps

Centrifugal Sewage Pumps

Type	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Pre-frontal screw	Minor/ Major PS	N/A	Hidrostal	Long and close-coupled non-immersible models	Hidrostal Australia Pty Ltd		
Submersible sewage	Minor/ Major PS	SPS 503	ABS	AFP Series/XFP Series	Sulzer Australia Pty Ltd	Subject to provision of 415V motors Refer to Performance Reports	
			Wilo-EMU	FA	Wilo Australia Pty Ltd	Check availability and lead time	
			Flygt	3045/3057, 3000 & N3000 Series	Xylem Water Solutions Australia Ltd	N Series Semi-open impeller, generally preferred (rag performance)	
			Grundfos	S1, S2, S3, S4	Grundfos Pumps Pty Ltd		
			KSB Ajax	Amarex KRT	KSB Australia Pty Ltd		
			Hidrostal	Series B, C, D, E & F (Material code 3 with RL03 Impeller and Hidrohard Liner)	Hidrostal Australia Pty Ltd	Semi-open Screw impeller generally preferred (rag performance) Check suction clearance! (suction longer than other pumps) Standard supply is Mat.3 combination: 1.4122 stainless steel impeller and HidroHard high chrome DIN liner material.	
			KSB	Amarex KRT (Dmax and F-Max D impeller)	KSB Australia Pty Ltd	D-Max Semi-open impeller generally preferred (rag performance)	
Submersible Sewage pump discharge bend	All sizes		Flygt		Xylem Water Solutions Australia Ltd	Refer SPS 503 Appendix C	
Submersible drainage	Minor	N/A	Flygt	BIBO	Xylem Water Solutions Australia Ltd		
			Grundfos	AP (renamed Unilift)	Grundfos Pumps Pty Ltd		

Product Data Sheet links – Internal Use Only

TABLE C Mechanical Products – Pumps

Non-Immersible Sewage or Sludge Pumps

Type	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Sewage Pump WTP Applications (Dry well applications only)	Minor/ Major PS	N/A	KSB	Sewatec	KSB Australia Pty Ltd	Suitable for sludge pumping applications not requiring immersible motors. Available in close coupled & long coupled configuration. Suitable for horizontal or vertical installation. Pumps are fitted with standard squirrel cage motors. Different types of impellers are available for handling sewage or sludge in WWTP applications	Used at Albany WWTP with positive feedback. Installed at Gnarabup WWTP Geoff Dunstan Follow up Jun 2022
			Hidrostal	Range Size B.C.D.E.F.I.L.M	Hidrostal Australia Pty Ltd.	Suitable for sludge pumping applications not requiring immersible motors. Available in close coupled & long coupled configuration. Suitable for horizontal or vertical installation. Closed coupled pumps are designed for fitment with standard squirrel cage flange mount motors. Pumps are fitted with Screw type impellers suitable for handling sewage or sludge in WWTP applications	Woodman Point WWTP – Digester Mixing Pump Alkimos WWTP RAS Pumps Beenyup WWTP- EAS &RAS Pumps

Product Data Sheet links – Internal Use Only

TABLE C Mechanical Products – Pumps

Rotary Displacement Pumps

Type	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Progressive Cavity Pedestal	Minor	SPS 525	Allweiler AG	Series ADBP, ANBP	Pump Power		
				Series TF, AEB, AE			
			Bornemann	EH, EL	ITT Blakers		
			Mono	Industrial E, Compact C Range & EzStrip , Widethroat W, LF ,	NOV Australia Pty Ltd.	Use of EzStrip is available up to 165m ³ /hr & 12bar pressure. Model LF for chemical dosing applications	
			Seepex	Group N, T	Seepex Australia Pty Ltd.		
			Netzsch	NEMO BY/SY	Netzsch Australia Pty Ltd		
			Roto	RLCZ631R2CD1P SPS RMAZ602J7CF1P SPS	Roto Pumps Australia		
Rotary Lobe Pumps		N/A	Boerger	FL 776	Dynapumps	Trial use since 2016 Mandurah Vacuum Pump Station	June 2023

Product Data Sheet links – Internal Use Only

TABLE C Mechanical Products – Pumps

Chemical Dosing (Diaphragm Type) Pumps

Product	Type	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Digital/ Solenoid Diaphragm	Pedestal (Refer Notes given below)	Minor	N/A	Pulsatron	Series A , E , MP	Trility (formerly Hydramet Pty Ltd)		
				Iwaki	E series	Pump N seal Australia		
				Prominent	Gamma X Delta	Prominent Fluid Controls Pty Ltd.		
Mechanical Diaphragm	Loss-motion (Refer Notes given below)	Minor	N/A	Grundfos	DMX 221 , DMX226 , DMH 251-257	Grundfos Pumps Pty Ltd		
				Iwaki	LK ,	Pump N Seal Australia		
				Prominent	Sigma	Prominent Fluid Controls Pty Ltd		
				Wallace & Tiernan	Encore 100	Trility (formerly Hydramet Pty Ltd)		
	Full movement (Refer Notes given below)	Minor	N/A	Grundfos	DDA , DDI , DME , DDE (not approved for FSA applications)	Grundfos Pumps Pty Ltd	DDA has auto de-aeration feature. Review based on pumps installed at Carabooda Tank	
				Iwaki	AX , IX	Pump N Seal Australia		
				Wallace & Tiernan	Encore 700	Trility (Formerly Hydramet Pty Ltd)		

Product Data Sheet links – Internal Use Only

Notes

- Refer DS32 Section 10 for guidance on type of pump required
- Purchaser to inform the supplier of: medium to be dosed (viscosity, temperature); required flow range; discharge pressure range; requirement for double diaphragms; requirement for diaphragm rupture sensing; degassing (self-bleeding); type of end connection; power supply and control & monitoring requirements (manual, external, pulse, analogue, Profibus connectivity etc.) as a minimum for selection of dosing pumps.
- FSA Pumps shall comply with DS 32 Clause 10.8.6 and DS71-01 Clause 6.1.1.

TABLE C Mechanical Products – Pumps

Magnetically Driven Chemical Transfer Pumps

Product	Type	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Chemical Transfer Pumps	Magnetically Driven	Various	NA	Iwaki	SMX-F MX-F MXM MDM MDE	Pump N seal Australia	SMX-F- Self priming version for sump applications- not for general use MXF-Plastic front casing & flanges MXM/MDM/MDE – Cast Iron outer housing and flange rings with plastic liner	

Product Data Sheet links – Internal Use Only

Notes

1. Magnetically driven chemical transfer pumps are suitable for transfer of corrosive chemicals that are difficult to seal.
2. Purchaser to inform the supplier of chemicals to be pumped (chemical name, concentration, viscosity, temperature); required flow range; normal and maximum transient discharge pressure range; type of end connection; power supply, motor type (AC/DC, DC Brush/DC Brushless and Stepper), as a minimum for selection of magnetically driven chemical transfer pumps

TABLE C Mechanical Products – Pumps

Vacuum Pumps

Product	Type	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Liquid Ring	Flat sided rotor porting	Minor	N/A			Refer Note 2	Refer Note 2	
	Conical rotor porting	Minor	N/A					
Rotary Vane	Oil recirculated	Minor	N/A	BUSCH	R Range	Busch Australia Pty Ltd	Refer Notes 3,5	
				Rietschle	V Series	Gardner Denver Industries Pty Ltd		
Rotary Claw	Dry compression	Minor	N/A	Rietschle	Zephyr VLR	Gardner Denver Industries Pty Ltd	Refer Note 4	
				Busch	Mink	Busch Australia Pty Ltd		

Product Data Sheet links – Internal Use Only

Notes

1. Table needs to be reviewed and updated, consult Scott McKenzie for latest product & project knowledge.
2. Liquid Ring pumps shall be of corrosion resistant materials only. Running costs are high due to water consumption but they provide moderate discharge temperature due to water seal cooling effect. Generally for 'like for like' replacement applications only.
3. Rotary Vane Pumps have proven very reliable. Having an integral oil cooling fan, they emit more heat within the building (requiring appropriate forced ventilation) but provide lower discharge temperature than Dry Compression for odour treatment systems.
4. Only to be used where high discharge temperatures can be tolerated (not suited to organic odour treatment systems)
5. Lower cost pump from 'non-traditional' sources have not proven reliable (high oil consumption) and should not be used.

TABLE C Mechanical Products – Compressors

Compressors

Product	Type	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Positive Displacement	Reciprocating	Minor	N/A	Atlas Copco	LE/LT (Oil Lubricated) LF (Oil Free)	Atlas Copco Compressors		
				Champion	APP Range	Champion Compressors		
				Gardner Denver	R Series	CompAir (Australia) Ltd		
				Ingersoll Rand	Type 30	CAPS Australia Pty Ltd		
	Rotary Screw	Minor/ Major	N/A	Atlas Copco	GX, GA	Atlas Copco Compressors – Suitable for ambient temperatures up to 46 °C		
				Sullair	DS Incorporated into Champion CSF Series	Champion Compressors – Suitable for ambient temperatures up to 50 °C		
				CompAir	L Series	CompAir (Australia) Ltd.– Suitable for ambient temperatures up to 50 °C		
				Ingersoll-Rand	UP, SSR Series	CAPS Australia – Suitable for ambient temperatures up to 46 °C		
				Kaeser	Airtower	Kaeser Compressors Australia Pty Ltd – For ambient temperatures up to 45 °C. (Oil flooded screw only available).		

Product Data Sheet links – Internal Use Only

Notes

1. Table needs to be reviewed and updated
2. Air compressors with SS enclosures suitable for outdoor installation are available. Painted enclosures should only be used for indoor installations.

TABLE C Mechanical Products – Blowers

Blowers

Product	Type	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Custodian / Review Date
Positive Displacement	Rotary vane	Minor / Major	N/A	Busch	Seco	Busch Australia Pty Ltd.		
				Rietschle	Picolino, Pico, Druvac, Macro	Dynapumps		
	Rotary lobe	Minor / Major	N/A	Busch	Panda, Puma, Tyr	Busch Australia Pty Ltd		
				Rietschle	Shark	Gardner Denver Industries Pty Ltd		
				Robuschi	RBS, Robox Series	CAPS Australia Pty Ltd		
	Rotary claw			Rietschle	Zephyr	Gardner Denver Industries Pty Ltd		
				Bush	Mink	Busch Australia Pty Ltd		
Centrifugal	Multistage	Major	N/A	Hoffman	40, 300, 600/700 Series	CAPS Australia Pty Ltd		
				Ingersoll Rand	Centac			
				Lamson	Series 2000			
	High Speed	Major	N/A	Donkin	SG Range	Howden Australia		

Product Data Sheet links – Internal Use Only

Notes

1. Table needs to be reviewed and updated

TABLE C Mechanical Products – Pressure Vessels

Small Pressure Vessels & Diaphragm Pressure Tanks (Non harmful contents)

Product	Type	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Custodian / Review Date
Pressure Vessels (AS1210)	Bladder Type PN16	1m³ , 2m³ & 3m³	SPS 249	Charlatte	Bladder Type – PN16-AS1210-Class 2A	Safe Surge Pty Ltd	Charlatte PN16, bladder vessels of size 1m ³ , 2m ³ & 3m ³ have design registered with NSW WorkCover	
Pressure Tanks	Bladder Type PN16	200L, 300L	N/A	Global Water Solutions	SMB-200LV & 300LV	Global Water Solutions (also, local agents)	Listed GWS pressurised water storage tanks have design registered with Worksafe Victoria	
Pressure Tanks	Diaphragm Type PN10	200L, 250L, 300L, & 450L	N/A	Global Water Solutions	GT-U+200 PN16 , GT-U+300 PN16	Grundfos Pumps Pty Ltd	The design registration number and hazard level, shall be marked on the name plate.	
Pressure Tanks	Diaphragm Type PN10*	200L, 250L, 300L, & 450L	N/A	Global Water Solutions	GCB-200LV, 250LV, 300LV & 450LV	Global Water Solutions (also, local agents)	A copy of the design registration certificate shall be provided with the documents.	
Pressure Tanks	Diaphragm Type PN25	100L	N/A	Global Water Solutions	GT-D-200 PN10 , GT-D-240 PN10 , GT-D-300 PN10 , GT-D-450 PN10	Grundfos Pumps Pty Ltd		

Pressurised water storage tanks listed above could be used for applications requiring diaphragm pressure tanks subject to Design Pressure x Volume (PV) not exceeding 200 MPa.L. Higher PV'S may be selected being aware of mandatory inspection requirements. Please refer Section 11 of DS35-01.

Product Data Sheet links – Internal Use Only

Note. The above is not exclusive but other makes and models selected shall have Australian design registration, name plate and documentation as above

* **PN 10** Pressure Vessels may be used only in systems where the maximum achievable system pressure (closed valve) is ≤ 7 bar.

TABLE C Mechanical Products – Miscellaneous

Miscellaneous

Product	Type	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Miscellaneous								
Electric Actuators	415V/50Hz	NA	Refer DS26-41				All Electrical Actuators shall comply with DS26-41. Please refer to Water Corporation's Electrical Preferred Equipment List makes approved for use.	
Electric Actuators for PVC Ball valves			N/A				Please refer products listed under Valves & Fittings for Chemical dosing Systems	
Standpipes	Metered	DN 80 x DN 20	SPS 155	RMC	Hose tap outlet	Reliance Worldwide		
					Cam lock outlet			
Dismantling Joints - Heavy Duty Fully Restrained with seal activated by continuous tie-rods	Compact (Wafer Type) PN16, AS4087 Flanges	DN 100 - DN 1200	N/A	Steel mains	Compact Dismantling Joint	Steel mains	Installed at Boyle Lane Valve Complex, Boyle Lane, Orange Grove. Operations Contact David Kelly. Review June 2022. Installed at Victoria dam outlet main connection to Canning trunk main. Operations contact David Kelly. Review June 2023. Planned for use in Wanneroo Clearwater Pump Station. Contact Saverio Carbone.	
	Long Face to Face Length, PN16, AS4087 Flanges	DN 80- DN 1200		AVFI	AFD10	AVFI Pty Ltd	<ul style="list-style-type: none"> Flanged with through SS316 PTFE Coated Bolts- AS4087 PN16 Dismantling joints with separate sealing bolts are not acceptable 	
		DN 80- DN450		Pipemate	Type B	Hygrade Water Australia		
		DN50- DN 1400		AVK	FD10	Iplex Pipelines Aus Pty Ltd AVK Australia Viadux Pty Ltd Reece Australia Pty Ltd		
Strainers	H-Strainer	DN 25 - 600	N/A	CLA-VAL	X43H	Challenger Valves & Actuators	AS4087 flanged version required. Installed at Bootenal & Rangeway tank sites in Geraldton. Review June 2022, Jarrod Hoffman.	

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	Standard	DN200	N/A	Bermad	70E	Bermad Water Technologies	AS4087 double flange version required. Standard body with Strainer basket in SS316 with 3mm holes Planning to install in G&A. Contact Chep Smith , TA, G&A for an update.
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Product Data Sheet links – Internal Use Only

8 **TABLE D Process Products**

No	Product	Type/Material	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Chlorination									
1	Vacuum Regulator	Remote/yoke mount	N/A	N/A	Wallace and Tiernan	210	Evoqua	Historically used	
		Remote/yoke mount	N/A	N/A	Wallace and Tiernan	510	Evoqua	Historically used	
2	Chlorinator	Non-sonic	0-15 kg/hr	N/A	Wallace and Tiernan	V10k	Evoqua	Historically used	
		Sonic	0-10 kg/hr	N/A	Wallace and Tiernan	S10k	Evoqua	Historically used	
		Non-sonic	10-200 kg/hr	N/A	Wallace and Tiernan	V2000	Evoqua	Historically used	
		Sonic	0 - 0.1 kg/hr through to 0 - 60 kg/hr	N/A	DeNora (Severn Trent)	NXT	Westwater	Historically used	
3	Ejector	Fixed throat	¾" - 1"	N/A	Wallace and Tiernan	Various	Hydramet	Historically used	
		Adjustable Throat	2", 3", 4"	N/A	Wallace and Tiernan	Various	Hydramet	Historically used	
4	Non-return valve	Ball, tantalum spring check	2, 5, 10, kg/hr	N/A	Chemical Injection Technologies	HASM-(2,5,10)SCV-VC VLV	Hydramet	#98505912 Under trial	

TABLE D Process Products

No	Product	Type/Material	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
5	Non-return	Diaphragm, tantalum spring check	40 kg/hr	N/A	Chemical Injection Technologies	HP-CV-11-100-SCV-V VLV	Hydramet	#98505912 Under trial	
6	Non-return	Diaphragm, tantalum spring check	120, 200 kg/hr	N/A	Chemical Injection Technologies	HP-CV-200/300-SCV-V VLV	Hydramet	#98505912 Under trial	
7	Dosing Spear/Quill	Retractable	¼”, ½”	N/A	Hydramet	HQ3	Hydramet	Maximum length permitted is 600mm until further review	
8	Main Isolation for chemical dosing	Lined Plug valve	Various	N/A	XOMOX	061-1-PFA-1-PFA-W	Crane Australia	Historically used – refer dwgs: JZ39-2-2, JZ39-2-3 and JZ39-2-4	
Chemical – General									
1	Safety Shower with combination eyewash	N/A	N/A	N/A	Ashley	(Compliant with DS79.2) ASE 680	Ashley	PM#13135006	
			N/A	N/A	Enware	(Compliant with DS79.2) ECE090 Inside ENBE090 Outside	Enware	PM#13135006	
			N/A	N/A	Pratt	(Compliant with DS79.2) SE612	Pratt	PM#13135006	

No	Product	Type/Material	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Chemical – 50% Sodium Hydroxide Valves (Nexus ID 125995127)									
1	Diaphragm valve (PN10)	Hard Natural Rubber lined SG Iron, Butyl diaphragm	25-100mm	N/A	Saunders	Type A Weir Style	Crane Australia		
		UPVC body, EPDM diaphragm	25-100mm	N/A	Asahi	Type 14 EPDM ANSI 150	Fusion Australia		
		UPVC body, EPDM diaphragm	25-100mm	N/A	George Fischer	Type 514/317	Trility	Not to be used for actuated applications	
		PVC body, EPDM diaphragm	25-100mm	N/A	Hayward	DAB Series Flanged	Reece		
2	Butterfly valve (PN16)	Ductile iron body, PTFE seat, PTFE coated disc	50-100mm	N/A	AFFCO	Series 686	Flocontrol		
3	Butterfly valve (PN10)	PFA lined Ductile Iron	50-100mm	N/A	XOMOX	Tuflin XLD	Crane Australia		
		Ductile iron PTFE lined body, PFA encapsulated SS disc	50-100mm	N/A	Neotecha	NSD 050 N01WM4B00	Emerson		
		Lugged Ductile iron, modified PTFE seat, duplex disc with modified PTFE coating		N/A	Ebro	T214-A MPTFE lined	Ebro Armaturen		
		Ductile iron or SS body, PFA lined, PFA encapsulated SS disc	50-100mm	N/A	APV Superseal	2014 DI PFA lined	Global Supply Line		
4	Ball Check	Ductile iron PFA lined body and ball, PTFE seals	All	N/A	XOMOX	Tuflin XLC	Crane Australia		

No	Product	Type/Material	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
		Ductile iron PFA lined body, EPDM coated steel ball		N/A	APV Superseal	DO series ball check	Global Supply Line		
		PVC, EPDM seals and seats		N/A	Asahi	Ball check valve	Fusion Australia		
		PVC or CPVC body and ball, PTFE seat, EPDM seals		N/A	Hayward	TC Series Socket	Reece		
5	Pressure Control valve	PVC body with Noryl bonnet, EPDM diaphragm		N/A	Hayward	RPV pressure relief/retaining	Reece		
		PVC body with Noryl bonnet, EPDM diaphragm		N/A	Hayward	PBV pressure reducing	Reece		
		PVC body and EPDM diaphragm and seals		N/A	George Fischer	Type 586 pressure retaining	Trility		
		PVC body and EPDM diaphragm and seals		N/A	George Fischer	Type 582 pressure reducing	Trility		
		PVC body and EPDM diaphragm and seals		N/A	Asahi	V85/185 & V86/186 pressure relief/ retaining	Fusion Australia		
		PVC body and EPDM diaphragm and seals		N/A	Asahi	V82/182 pressure reducing	Fusion Australia		
		PVC body and EPDM diaphragm		N/A	ASV-Stubbe	DHV 712-R pressure relief/ retaining	Braeco		
		PVC body and EPDM diaphragm		N/A	ASV-Stubbe	DMV 755 pressure reducing	Braeco		

No	Product	Type/Material	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
Chemical – 98% Sulphuric Acid Valves (Nexus ID 125995127)									
1	Ball valve (PN16)	Ductile iron PFA lined body and ball, PTFE seats	All	N/A	XOMOX	Tuflin XLB	Crane Australia		
		Ductile iron PFA lined body, PTFE ball and seats		N/A	AZ Armaturen	NVN	Flocontrol		
		Ductile iron PFA lined body PFA encapsulated steel ball, PTFE seats with PFA encapsulated FKM o-ring		N/A	Pentair (Neotecha)	Neotecha type NTB 050 NB1FA1L00	Emerson		
		Ductile iron PFA lined body, PTFE coated DI ball, PTFE seals		N/A	APV Superseal	RFLL PFA lined	Global Supply Line		
		PVDF body, PTFE seat and FPM seals		N/A	Asahi	Type 21/21a	Fusion Australia	For trial only	
		PVDF body, PTFE ball, PTFE seat and FPM seals		N/A	Hayward	TB Series Socket	Reece	For trial only	
		PVDF body and ball, PTFE seat and FPM seals		N/A	George Fischer	Type 546	Trility	For trial only	
2	Butterfly valve (PN16)	Ductile iron body, PFA seat, PFA coated disc	50-100mm	N/A	AFFCO	Series 686	Flocontrol		
3	Butterfly valve (PN10)	Ductile iron PTFE lined body, PFA encapsulated SS disc	50-100mm	N/A	Neotecha	NSD 050 N01WM4B00	Emerson		
		Ductile iron, modified PTFE seat, duplex disc with modified PTFE coating	50-100mm	N/A	Ebro	T214-A PTFE lined	Ebro Armaturen		

No	Product	Type/Material	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
		Ductile iron body, PFA lined, PFA encapsulated SS disc	50-100mm	N/A	APV Superseal	2014 DI PFA lined	Global Supply Line		
		PFA lined Ductile Iron	50-100mm	N/A	XOMOX	Tuflin XLD	Crane Australia		
4	Ball Check	Ductile iron PFA lined body and ball, PTFE seals	All	N/A	XOMOX	Tuflin XLC	Crane Australia		
		Ductile iron PFA lined body PFA coated steel ball		N/A	APV Superseal	DO series ball check	Global Supply Line		
		PVDF body, PTFE seals and seats		N/A	Asahi	Ball check valve	Fusion Australia	For trial only	
		PVDF body and ball, PTFE seat, FPM seals		N/A	Hayward	TC Series Socket	Reece	For trial only	
5	Pressure Control valve	PVDF body with Noryl bonnet, PTFE diaphragm			Hayward	RPV pressure relief/retaining	Reece	For trial only	
		PVDF body with Noryl bonnet, PTFE diaphragm			Hayward	PBV pressure reducing	Reece	For trial only	
		PVDF body and PTFE diaphragm and FKM seals			George Fischer	Type 586 pressure retaining	Trility	For trial only	
		PVDF body and PTFE diaphragm and FKM seals			George Fischer	Type 582 pressure reducing	Trility	For trial only	
		PVDF body and PTFE coated diaphragm and PTFE seals			Asahi	V85/185&V86/186 pressure relief/retaining	Fusion Australia	For trial only	
		PVDF body and PTFE coated diaphragm and PTFE seals			Asahi	V82/182 pressure reducing	Fusion Australia	For trial only	
		PVDF body and FPM diaphragm and seals			ASV-Stubbe	DHV712-R pressure relief/retaining	Braeco	For trial only	

No	Product	Type/Material	Size	SPS No	Make	Model	Supplier	Product Limitations/ Outstanding Performance Reviews	Review Date
		PVDF body and FPM diaphragm and seals			ASV-Stubbe	DMV 755 pressure reducing	Braeco	For trial only	
Chemical – Plastic Lined Metallic Piping Systems (also for corrosive service)									
1		PTFE/ PFE/ PP/ PVDF Piping System			Crane Resistoflex		Crane		
		PTFE Lined Piping System			Baum		Access Petrotec		

NOTES AND COMMENTS

H.	The above Tables comprise listings of authorised strategic products that have consistently performed over long periods of service, have been subject to formal documented authorisation processes as described in Note F or have been deemed fit for purpose by virtue of past usage in WA water and wastewater conveyance systems.
I.	The Tables are not intended to be an exhaustive listing of authorised product suppliers. The authorisation of new products (and suppliers) in the Tables shall be in accordance with the requirements set out in the following Notes.
J.	Authorisation of a new product shall be subject to a formal documented appraisal process such as described below. Where product performance in service is untried or untested special product warranty conditions may apply as deemed appropriate by the Corporation may be required.
K.	The objectives of authorisation processes for strategic products include evaluation of engineering and operational fitness for purpose, whole-of-life risk and value, service life expectancy and compatibility with existing Corporation infrastructure and stock.
L.	Authorisation shall be limited to the listed products. Designers and constructors shall ensure that products intended for use have been authorised in accordance with these requirements.
M.	The typical stages of authorisation of a strategic product are:
	(a) Submission to a formal engineering appraisal process whereby product design and certification to the required product standards is verified and operational fitness for purpose is proven by trial in live service, prior to any authorisation or use;
	(b) Appraisal of product design, third party certification and fitness for nominated performance levels under the WSAA National Product Appraisal Scheme operated by the Water Services Association of Australia (WSAA) on behalf of its members (including the Corporation). Information on WSAA appraisal application procedures, terms and conditions may be referenced at www.wsaa.asn.au . Appraisal may alternatively, by agreement, comprise a formal report by a product assessor having appropriate specialist product knowledge and qualifications acceptable to the Corporation;
	(c) Initial limited scale operational trialling of product samples including performance reporting under headings of ease of handling and robustness under live installation and service conditions, identified service limitations and adequacy of product assembly and installation instructions.
N.	Suppliers shall bear the liabilities including the cost of product appraisal and verification of compliance with the requirements herein. Suppliers are also advised to plan the timing of product submissions for authorisation to take due account of product appraisal and certification processes including operational trials which can be time consuming.

(*) Authorisation number:

yy	nn	xxA
Year	Sequential number	WA - Water
2011 = 11		WWA – Wastewater
2012 = 12		

END OF DOCUMENT