



Document No: AKAPIS-M-RG-0003 / F10975

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F10975 - Preferred Treatment Plant Equipment List

Notes: The List is not exhaustive. If a make and model is not specified then check acceptability with Unitywater. New products are regularly being released on to the market. Product appraisal requests can be sent to products@unitywater.com

ID	Product Type	Product MAKE and Model	Manufacturer / Supplier	Trade Name	Size Range	Specific Requirements / Minimum Class	Comments
1	Pumps Submersible	KSB	KSB	NULL	NULL	KRT Type K & E impellers not accepted for raw unscreened sewage applications. New pump station installations are to be fitted with Forrers duckfoot bends with Forrers locking plates fitted to the pump discharge flange.	IPAM approved.
2	Pumps Submersible	Flygt	Xylem Water Solutions Ltd	Flygt	NULL	New pump station installations are to be fitted with Forrers duckfoot bends with Forrers locking plates fitted to the pump discharge flange.	IPAM approved.
3	Pumps Submersible	Sulzer	Sulzer	NULL	NULL	New pump station installations are to be fitted with Forrers duckfoot bends with Forrers locking plates fitted to the pump discharge flange.	IPAM approved.
4	Pumps Submersible	Grundfos	Grundfos	Grundfos	NULL	New pump station installations are to be fitted with Forrers duckfoot bends with Forrers locking plates fitted to the pump discharge flange.	IPAM approved. Grundfos makes a vertical multistage pump that is preferred.
5	Pumps Submersible	Hidrostal	Hidrostal	NULL	NULL	New pump station installations are to be fitted with Forrers duckfoot bends with Forrers locking plates fitted to the pump discharge flange.	IPAM approved
6	Pumps Axially split-casing centrifugal water	Flygt	Börger – Rotary Lobe	Lowara	NULL	NULL	IPAM approved.
7	Pumps Axially split-casing centrifugal water	Sulzer	Vogelsang Rotary Lobe	NULL	NULL	NULL	IPAM approved with comment "Use is subject to acceptance by SP".
8	Pumps Axially split-casing centrifugal water	KSB	Hidrostal	NULL	NULL	NULL	IPAM approved.
9	Pumps Axially split-casing centrifugal water	Hidrostal	Mono	NULL	NULL	NULL	Not IPAM approved as of 28/10/21.
10	Pumps Rotary Lobe (Self Priming)	Börger – Rotary Lobe	Netzsch	NULL	NULL	NULL	Not IPAM approved as of 28/10/21.
11	Pumps Rotary Lobe (Self Priming)	Hydro Innovations	Prominent Fluid Controls	Gorman Rupp	NULL	NULL	IPAM approved.
12	Pumps Rotary Lobe (Self Priming)	Vogelsang Rotary Lobe	Flowserv - TKL	NULL	NULL	NULL	IPAM approved with comment "Use is subject to acceptance by SP".
13	Pumps Multistage Centrifugal	Grundfos	Pentair (Stainless)	Grundfos	NULL	NULL	IPAM approved.
14	Pumps Multistage Centrifugal	Lowara	AVFI	NULL	NULL	NULL	IPAM approved
15	Pumps Vacuum Pumps	Busch Vacuum Pumps	Georg Fischer (Plastics)	Mink Rotary Claw Vacuum Pumps	NULL	NULL	IPAM approved.
16	Pumps Vacuum Discharge Pumps	Hidrostal	ARI Flow Control	NULL	NULL	Application is for use as discharge pumps on vacuum receiver vessels on vacuum sewer systems	IPAM approved.
17	Pumps Helical Rotor (Progressive Cavity)	Mono	AVFI	NULL	NULL	For use in low pressure sewerage system pumping stations.	IPAM approved.
18	Pumps Helical Rotor (Progressive Cavity)	Netzsch	Bermad	NULL	NULL	NULL	Not IPAM approved as of 28/10/21.
19	Pumps Helical Rotor (Progressive Cavity)	Prominent Fluid Controls	ISCO	NULL	NULL	NULL	Not IPAM approved as of 28/10/21.
20	Pumps Helical Rotor (Progressive Cavity)	Flygt	Odour Technologies	NULL	NULL	NULL	Not IPAM approved as of 28/10/21.
21	End-suction Centrifugal Water Pumps	Lowara	Vent-O-Mat	Lowara	NULL	NULL	IPAM approved with comment "Use is subject to acceptance by SP".
22	End-suction Centrifugal Water Pumps	KSB	AVK	NULL	NULL	NULL	IPAM approved
23	End-suction Centrifugal Water Pumps	Sulzer	Pentair - Keystone	NULL	NULL	NULL	IPAM approved
24	End-suction Centrifugal Water Pumps	Grundfos	Ebro	Grundfos	NULL	NULL	IPAM approved with comment "Use is subject to acceptance by SP".
25	Pumps - Self Priming Sewage Pumps	Vogelsang	Valveco	Vogelsang Rotary Lobe	NULL	NULL	IPAM approved with comment "Use is subject to acceptance by SP".
26	Pumps - Self Priming Sewage Pumps	Gorman Rupp	Georg Fischer (Plastics)	Gorman Rupp	NULL	NULL	IPAM approved

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27	Axially Split-Casing Centrifugal Water Pumps	Lowara	HMA Valvecor - ValMatic	NULL	NULL	NULL	IPAM approved with comment "Use is subject to acceptance by SP".
28	Axially Split-Casing Centrifugal Water Pumps	KSB	AWMA Pty Ltd	NULL	NULL	NULL	IPAM approved.
29	Axially Split-Casing Centrifugal Water Pumps	Sulzer	SpanSet Australia	NULL	NULL	NULL	IPAM approved
30	Axially Split-Casing Centrifugal Water Pumps	Flowserve - TKL	Halco	NULL	NULL	NULL	Not IPAM approved as of 28/10/21.
31	Resilient Seated Gate Valves, thermal bonded polymeric coating (PN16)	AVK	Demag	Series 57 (light type only for DN100 & 150) Series 570 Series 55	Up to DN400 Up to DN600 DN450 to 600	Some valves may not need by-pass (check with Unitywater). All DI fittings to be wrapped. All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted.	IPAM approved
32	Resilient Seated Gate Valves, thermal bonded polymeric coating (PN16)	Hawle	Konecranes	E2 E2 System 2000	DN50-200 DN50-300	Some valves may not need by-pass (check with Unitywater). All DI fittings to be wrapped. All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted.	IPAM approved
33	Resilient Seated Gate Valves, thermal bonded polymeric coating (PN16)	Hawle / Hygrade Water	Ovivo / EIMCO Water Technologies	E3 (FL-FL)	DN100-DN300	Some valves may not need by-pass (check with Unitywater). All DI fittings to be wrapped. All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted.	IPAM approved
34	Resilient Seated Gate Valves, thermal bonded polymeric coating (PN16)	Viadux	Huber	Series 500 Auslite II Auslite III	Up to DN600 DN100 - DN300 Up to DN 600	Some valves may not need by-pass (check with Unitywater). All DI fittings to be wrapped. All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted.	IPAM approved
35	Resilient Seated Gate Valves, thermal bonded polymeric coating (PN16)	Karon / Challenger	Bilfinger / Johnson Screens	Karon Karon (FL-FL light weight design) Karon (FL-FL integral bypass valves)	DN80 - DN600 DN80 - DN300 DN450 - DN600	Some valves may not need by-pass (check with Unitywater). All DI fittings to be wrapped. All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted.	IPAM approved
36	Resilient Seated Gate Valves, thermal bonded polymeric coating (PN16)	AVFI	Ovivo / Jones & Attwood	NULL	DN80 - DN600	Some valves may not need by-pass (check with Unitywater). All DI fittings to be wrapped. All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted.	IPAM approved, but not accepted by Unitywater.
37	Resilient Seated Gate Valves, thermal bonded polymeric coating (PN16)	Betta	CST Wastewater Solutions	BETTA	DN80 - DN600	Some valves may not need by-pass (check with Unitywater). All DI fittings to be wrapped. All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted.	IPAM approved

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38	Resilient Seated Gate Valves, thermal bonded polymeric coating (PN16)	AAP Industries	A.A.P Industries Pty Ltd, Ovivo / Brackett Green	Maxiflo/appFLO	DN80 to DN300	Some valves may not need by-pass (check with Unitywater). All DI fittings to be wrapped. All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted.	IPAM approved
39	Resilient Seated Gate Valves, thermal bonded polymeric coating (PN16)	Derwent Industries	Kuhn	Derwent	DN80 - DN600	Some valves may not need by-pass (check with Unitywater). All DI fittings to be wrapped. All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted.	IPAM approved
40	Resilient Seated Gate Valves, thermal bonded polymeric coating (PN16)	DAEMCO	Spirac	NULL	DN80 to DN300 for Soc-Sp DN80 to DN375 for FL	Some valves may not need by-pass (check with Unitywater). All DI fittings to be wrapped. All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted.	IPAM approved
41	Resilient Seated Gate Valves, thermal bonded polymeric coating (PN16)	Reece	Ovivo / EIMCO Water Technologies	DIMAX	DN80 – DN600 (FI-FI) DN100 – DN150 (Soc-Soc) DN100 – DN150 (Sp-Sp)	Some valves may not need by-pass (check with Unitywater). All DI fittings to be wrapped. All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted.	IPAM approved
42	Resilient Seated Gate Valves, thermal bonded polymeric coating (PN25)	Reece	Huber	DIMAX	DN80 – DN300 (FI-FI)	Some valves may not need by-pass (check with Unitywater). All DI fittings to be wrapped. All valves shall be restrained as per SEQ-WAT-1206-1. Valves that are not able to be restrained are not accepted.	IPAM approved
43	Resilient Seated Gate Valves, thermal bonded polymeric coating (PN16), for under pressure line stopping application for pressure sewerage	Daepoong/ CNS Engineering	Bilfinger / Johnson Screens	S- Gate Valve	DN100 - DN250	Valve for Underpressure Line Stopping, suitable for rigid pipes with CIOD compatibility, i.e. Ductile Iron, Cast Iron and Asbestos Cement	IPAM approved
44	Resilient Seated Gate Valves, thermal bonded polymeric coating (PN16) - with PE tails	AVK	Ovivo / Jones & Attwood	Series 36/80	Up to DN300	All valves shall be restrained. All DI fittings to be wrapped.	IPAM approved
45	Resilient Seated Gate Valves, thermal bonded polymeric coating (PN16) - with PE tails	Hawle	CST Wastewater Solutions	E2	Up to DN200	All valves shall be restrained. All DI fittings to be wrapped.	IPAM approved
46	Resilient Seated Gate Valves, thermal bonded polymeric coating (PN16) - with PE tails	Betta	Kuhn	Betta	DN100 & DN150	All valves shall be restrained. All DI fittings to be wrapped.	IPAM approved
47	Resilient Seated Gate Valves, thermal bonded polymeric coating (PN16) - with restrained/gripper ends	AVK	Spirac	Series 01/71	Up to DN300	All valves shall be restrained. All DI fittings to be wrapped.	IPAM approved. Use of gripper type RSGVs is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations
48	Resilient Seated Gate Valves, thermal bonded polymeric coating (PN16) - with restrained/gripper ends	Hawle	Pista / Smith & Loveless	E2 System 2000	DN50 - DN300	All valves shall be restrained. All DI fittings to be wrapped.	IPAM approved. Use of gripper type RSGVs is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations
49	Resilient Seated Gate Valves, thermal bonded polymeric coating (PN16) - with restrained/gripper ends	Betta	Huber	BETTA	DN100 - DN300	All valves shall be restrained. All DI fittings to be wrapped.	IPAM approved. Use of gripper type RSGVs is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations
50	Resilient Seated Gate Valves, thermal bonded polymeric coating (PN16) - with restrained/gripper ends	Derwent Industries	Ovivo / Jones & Attwood Jeta	Derwent	DN100 - DN150	All valves shall be restrained. All DI fittings to be wrapped.	IPAM approved. Use of gripper type RSGVs is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations

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51	Resilient Seated Gate Valves, thermal bonded polymeric coating (PN16) - with restrained/gripper ends	DAEMCO	Spirac	NULL	DN100 - DN150	All valves shall be restrained. All DI fittings to be wrapped.	IPAM approved. Use of gripper type RSGVs is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations
52	Knife gate valve - Stainless Steel	Pentair - Keystone	Huber	Keystone	Up to DN600	Body stainless steel Grade 316. Gate stainless steel Grade 316. Gland Follower stainless steel Grade 304 or 316. Spindle stainless steel grade 304 or 316. Yoke/Pillar/Bridge stainless steel Grade 304 or 316. Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel Grade 316.	IPAM approved, with comment 'Subject to meeting the corrosion resistance requirements in Specific Requirements column'.
53	Knife gate valve - Stainless Steel	Challenger	Ovivo / Jones & Attwood	Challenger	Up to DN600	Body stainless steel Grade 316. Gate stainless steel Grade 316. Gland Follower stainless steel Grade 304 or 316. Spindle stainless steel grade 304 or 316. Yoke/Pillar/Bridge stainless steel Grade 304 or 316. Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel Grade 316.	IPAM approved, with comment 'Subject to meeting the corrosion resistance requirements in Specific Requirements column'.
54	Knife gate valve - Stainless Steel	AVFI	Spirac	AVFI	Up to DN600	Body stainless steel Grade 316. Gate stainless steel Grade 316. Gland Follower stainless steel Grade 304 or 316. Spindle stainless steel grade 304 or 316. Yoke/Pillar/Bridge stainless steel Grade 304 or 316. Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel Grade 316.	IPAM approved, with comment 'Subject to meeting the corrosion resistance requirements in Specific Requirements column'.
55	Knife gate valve - Stainless Steel	HMA Valveco	Kuhn	HMA Valveco	Up to DN600	Body stainless steel Grade 316. Gate stainless steel Grade 316. Gland Follower stainless steel Grade 304 or 316. Spindle stainless steel grade 304 or 316. Yoke/Pillar/Bridge stainless steel Grade 304 or 316. Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel Grade 316.	IPAM approved, with comment 'Subject to meeting the corrosion resistance requirements in Specific Requirements column'.
56	Knife gate valve - Stainless Steel	AVK	Aerzen TURBO Blower	Orbinox	Up to DN600	Body stainless steel Grade 316. Gate stainless steel Grade 316. Gland Follower stainless steel Grade 304 or 316. Spindle stainless steel grade 304 or 316. Yoke/Pillar/Bridge stainless steel Grade 304 or 316. Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel Grade 316.	IPAM approved, with comment 'Subject to meeting the corrosion resistance requirements in Specific Requirements column'.
57	Knife gate valve - Ductile iron body	Pentair - Keystone	Sanitaire TurboMAX turbo blower	Keystone	Up to DN600	Body stainless steel Grade 316. Gate stainless steel Grade 316. Gland Follower stainless steel Grade 304 or 316. Spindle stainless steel grade 304 or 316. Yoke/Pillar/Bridge stainless steel Grade 304 or 316. Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel Grade 316.	IPAM approved

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58	Knife gate valve - Ductile iron body	Challenger	Aerzen - Delta Blower	Challenger	Up to DN600	Body and Gland Follower ductile iron with fusion bonded polymeric coating external to 300 µm, internal to 350 µm (min.) or high-build two-pack epoxy to 275 µm (min.). Gate stainless steel Grade 316. Spindle stainless steel Grade 316. Yoke / Pillar / Bridge carbon steel with fusion bonded polymeric coating to 300 µm or high-build two-pack epoxy to 275 µm (min.). Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel Grade 316. All DI fittings to be wrapped	IPAM approved
59	Knife gate valve - Ductile iron body	AVFI	Aerzen – Delta Hybrid Blower	AVFI	Up to DN600	Body and Gland Follower ductile iron with fusion bonded polymeric coating external to 300 µm, internal to 350 µm (min.) or high-build two-pack epoxy to 275 µm (min.). Gate stainless steel Grade 316. Spindle stainless steel Grade 316. Yoke / Pillar / Bridge carbon steel with fusion bonded polymeric coating to 300 µm or high-build two-pack epoxy to 275 µm (min.). Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel Grade 316. All DI fittings to be wrapped.	IPAM approved
60	Knife gate valve - Ductile iron body	AVK	Atlas Copco – ZS Type	CYL	Up to DN600	Body and Gland Follower ductile iron with fusion bonded polymeric coating external to 300 µm, internal to 350 µm (min.) or high-build two-pack epoxy to 275 µm (min.). Gate stainless steel Grade 316. Spindle stainless steel Grade 316. Yoke / Pillar / Bridge carbon steel with fusion bonded polymeric coating to 300 µm or high-build two-pack epoxy to 275 µm (min.). Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel Grade 316. All DI fittings to be wrapped.	IPAM approved
61	Ball Valves	Pentair (Stainless)	Elastox-T	NULL	Up to DN50	NULL	Not IPAM approved as of 28/10/21.
62	Ball Valves	AVFI	Huber Aerostrip	V1 Series - 1 Piece V2 Series - 2 Piece V3 Series - 3 Piece V2FH Series- Flanged	DN8 – DN50 DN8 – DN100 DN8 – DN100 DN15 - DN50	BSPT threaded connections. Suitable for sewage.	IPAM approved.
63	Ball Valves	Georg Fischer (Plastics)	EDI (Environmental Dynamics International)	NULL	Up to DN200	NULL	Not IPAM approved as of 28/10/21.
64	Gas Release Valves	ARI Flow Control	Landia	NULL	DN50 to DN200	PN16, Anti Slam as required, Thermal bonded polymeric coating or 316 Stainless steel	IPAM approved, with comment 'DN225 and larger mains to only use Vinloc- Smartvalve'
65	Gas Release Valves	AVFI	KSB	ARV-3-N	DN50 to DN200	PN16, Anti Slam as required, Thermal bonded polymeric coating or 316 Stainless steel	IPAM approved, with comment 'DN225 and larger mains to only use Vinloc- Smartvalve'
66	Gas Release Valves	Bermad	Grundfos	NULL	DN50 to DN200	PN16, Anti Slam as required, Thermal bonded polymeric coating or 316 Stainless steel	IPAM approved, with comment 'DN225 and larger mains to only use Vinloc- Smartvalve'
67	Gas Release Valves	ISCO	ABS	Vent Master PX	DN50 to DN200	PN16, Anti Slam as required, Thermal bonded polymeric coating or 316 Stainless steel	IPAM approved, with comment 'DN225 and larger mains to only use Vinloc- Smartvalve'

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68	Gas Release Valves	Odour Technologies	Sardik	Vinloc-Smartvalve	DN50 to DN200	PN16, Anti Slam as required, Thermal bonded polymeric coating or 316 Stainless steel	IPAM approved, with comment 'DN225 and larger mains to only use Vinloc- Smartvalve'
69	Gas Release Valves	Vent-O-Mat	PAX Water Technologies	NULL	DN50 to DN200	PN16, Anti Slam as required, Thermal bonded polymeric coating or 316 Stainless steel	IPAM approved, with comment 'DN225 and larger mains to only use Vinloc- Smartvalve'
70	Non-return valves - Swing check with counterweight lever arm	HMA Valveco – ValMatic Swing-flex	SEW-Eurodrive	Valmatic Swing-flex	DN50 - DN600	MIN. PN16, Thermal bonded polymeric coating	IPAM approved but not accepted by Unitywater
71	Non-return valves - Swing check with counterweight lever arm	Dobbie Dico	Sardik	NULL	DN80 to DN900	MIN. PN16, Thermal bonded polymeric coating	IPAM approved but not accepted by Unitywater
72	Non-return valves - Swing check with counterweight lever arm	AVK – Swing Check Valve 41/25	Koch Puron	NULL	Up to DN50	MIN. PN16, Thermal bonded polymeric coating	IPAM approved but not accepted by Unitywater
73	Non-return valves - Swing check with counterweight lever arm	AVK – Swing Check Valve 41/8X	GE ZeeWeed (LEAPmbr)	NULL	DN80 to DN300	MIN. PN16, Thermal bonded polymeric coating	IPAM approved but not accepted by Unitywater
74	Non-return valves - Swing check with counterweight lever arm	Challenger Valves – RSSC	Pentair X-flow	NULL	DN80 to DN375	MIN. PN16, Thermal bonded polymeric coating	IPAM approved but not accepted by Unitywater
75	Non-return valves - Swing check with counterweight lever arm	Pentair – Keystone Figure 87L	Amiad	Keystone Figure 87L	DN50 to DN600	MIN. PN16, Thermal bonded polymeric coating	IPAM approved but not accepted by Unitywater
76	Non-return valves - Swing check with counterweight lever arm	AVFI	Tekleen	AVFI - RSSC	DN50-DN300	MIN. PN16, Thermal bonded polymeric coating	IPAM approved but not accepted by Unitywater
77	Butterfly Valves (Lugged or Flanged)	AVK	Liquitek (Aqua-Aerobics) – Cloth Media Filter	NULL	DN50-600 for wafer/ lugged DN100-1000 double flanged	Body shall be ductile iron with fusion bonded polymeric coating external to 300 µm, internal to 350 µm (min.) or high-build two-pack epoxy to 500 µm (min.). Disc shall be stainless steel Grade 316. Shaft shall be stainless steel Grade 316, 410, 420, 430 or 431. Seat shall be EPDM, NBR or SBR. All fasteners shall be stainless steel Grade 316. Operation Type: Lever or Gearbox. Gearbox ratio as per manufacturer's requirement and coating – high build two-pack Epoxy 275 µm (min.)	IPAM approved with comment "Direction of closing: Clockwise Wafer or Lugged valves not accepted without prior approval."
78	Butterfly Valves (Lugged or Flanged)	Pentair - Keystone	CST – Cloth Media Filter	NULL	NULL	NULL	Refer to IPAM
79	Butterfly Valves (Lugged or Flanged)	Ebro	Veolia – Hydrotech	NULL	NULL	NULL	Refer to IPAM
80	Butterfly Valves (Lugged or Flanged)	Valveco	Huber – Rotary Thickener	NULL	NULL	NULL	Refer to IPAM
81	Butterfly Valves (Lugged or Flanged)	Georg Fischer (Plastics)	CST – Rotary Thickener	NULL	NULL	NULL	Refer to IPAM
82	Eccentric Plug Valves	HMA Valveco - ValMatic	FKC Rotary Screen Thickener	NULL	NULL	NULL	Refer to IPAM
83	Knife gate valve/penstock - Fabricated Stainless Steel	Australian Water Engineers	Andritz	Australian Water Engineers	DN100 to DN1200	Frame, Gate, Stem, Torque Tube, Thrust Tube: stainless steel Grade 316, electropolished. Seat UHMWPE. Lift Nut aluminium bronze. All fasteners stainless steel Grade 316.	IPAM approved, with comment 'Fabricated knife gate valve / penstock to comply with requirements of Unitywater Pr9693 – Specification for Mechanical Installation'
84	Knife gate valve/penstock - Fabricated Stainless Steel	Hygrade Water	Seragiotto	Atec GmbH	DN100 to DN2800	Frame, Gate, Stem, Torque Tube, Thrust Tube: stainless steel Grade 316, electropolished. Seat UHMWPE. Lift Nut aluminium bronze. All fasteners stainless steel Grade 316.	IPAM approved, with comment 'Use is subject to acceptance by UW'
85	Knife gate valve/penstock - Fabricated Stainless Steel	AWMA Pty Ltd	Alfa Laval – Rotary Thickener	NULL	NULL	NULL	Not IPAM approved as of 28/10/21.

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86	Davit Bases	SpanSet Australia	Dimpleflo	NULL	NULL	NULL	IPAM approved
87	Davit Bases	Halco	Groth	NULL	NULL	NULL	Awaiting approval
88	Crane / Monorails / Hoists	Demag	Alfa Laval	NULL	NULL	NULL	Product type is not currently on IPAM list.
89	Crane / Monorails / Hoists	Konecranes	Andritz	NULL	NULL	NULL	Product type is not currently on IPAM list.
90	Screens	Ovivo / EIMCO Water Technologies	Flottweg	NULL	NULL	NULL	Product type is not currently on IPAM list.
91	Screens	Huber	Huber	NULL	NULL	NULL	Product type is not currently on IPAM list.
92	Screens	Aqseptence (Bilfinger / Johnson Screens)	Ishigaki	NULL	NULL	NULL	Product type is not currently on IPAM list.
93	Screens	Ovivo / Jones & Attwood	FKC Dewatering Screw Press	NULL	NULL	NULL	Product type is not currently on IPAM list.
94	Screens	CST Wastewater Solutions	Sernagiotto / Siemens	NULL	NULL	NULL	Product type is not currently on IPAM list.
95	Screens	Ovivo / Brackett Green	Spirac	NULL	NULL	NULL	Product type is not currently on IPAM list.
96	Screens	Kuhn	Sanwest	NULL	NULL	NULL	Product type is not currently on IPAM list.
97	Screens	Spirac	Prominent Fluid Controls	NULL	NULL	NULL	Product type is not currently on IPAM list.
98	Grit Classifiers	Ovivo / EIMCO Water Technologies	Gebel	NULL	NULL	NULL	Product type is not currently on IPAM list.
99	Grit Classifiers	Huber	Bushman	NULL	NULL	NULL	Product type is not currently on IPAM list.
100	Grit Classifiers	Bilfinger / Johnson Screens	Wallace & Tiernan (Siemens)	NULL	NULL	NULL	Product type is not currently on IPAM list.
101	Grit Classifiers	Ovivo / Jones & Attwood	Prominent Fluid Controls	NULL	NULL	NULL	Product type is not currently on IPAM list.
102	Grit Classifiers	CST Wastewater Solutions	Prominent Fluid Controls	NULL	NULL	NULL	Product type is not currently on IPAM list.
103	Grit Classifiers	Kuhn	Atlas Copco	NULL	NULL	NULL	Product type is not currently on IPAM list.
104	Grit Classifiers	Spirac	Ingersoll Rand	NULL	NULL	NULL	Product type is not currently on IPAM list.
105	Vortex Grit Chamber	Pista / Smith & Loveless	Kaerer	NULL	NULL	NULL	Product type is not currently on IPAM list.
106	Vortex Grit Chamber	Huber	Atlas Copco	NULL	NULL	NULL	Product type is not currently on IPAM list.
107	Vortex Grit Chamber	Ovivo / Jones & Attwood Jeta	Ingersoll Rand	NULL	NULL	NULL	Product type is not currently on IPAM list.
108	Vortex Grit Chamber	Spirac	Kaerer	NULL	NULL	NULL	Product type is not currently on IPAM list.
109	Screenings Wash Presses	Huber	Gardner Denver / CompAir	NULL	NULL	NULL	Product type is not currently on IPAM list.
110	Screenings Wash Presses	Ovivo / Jones & Attwood	Hansen	NULL	NULL	NULL	Product type is not currently on IPAM list.
111	Screenings Wash Presses	Spirac	SEW-Eurodrive	NULL	NULL	NULL	Product type is not currently on IPAM list.
112	Screenings Wash Presses	Kuhn	Borg Warner	NULL	NULL	NULL	Product type is not currently on IPAM list.
113	Centrifugal Blowers	Mono Ezstrip Muncher	Mono Pumps Pty Ltd	NULL	NULL	NULL	Product type is not currently on IPAM list.
114	Centrifugal Blowers	Aerzen TURBO Blower	Aerzen Australia Pty Ltd	Aerzen	NULL	NULL	Product type is not currently on IPAM list.
115	Centrifugal Blowers	Sanitaire TurboMAX turbo blower	JWC Environmental Muffin Monster	NULL	NULL	NULL	Product type is not currently on IPAM list.
116	Centrifugal Blowers	Sulzer - ABS Turbocompressor HST	Sulzer	ABS	NULL	NULL	Product type is not currently on IPAM list.
117	Rotary Lobe Type Blowers	Aerzen - Delta Blower	Camsco SM202	Aerzen	NULL	NULL	Product type is not currently on IPAM list.
118	Rotary Screw Type Blowers	Aerzen - Delta Hybrid Blower	Jenbacher	Aerzen	NULL	NULL	Product type is not currently on IPAM list.
119	Rotary Screw Type Blowers	Atlas Copco - ZS Type	Rotork	NULL	NULL	NULL	Product type is not currently on IPAM list.
120	Fine Pore Aeration Diffusers	Elastox-T	Auma	NULL	NULL	NULL	Product type is not currently on IPAM list.
121	Fine Pore Aeration Diffusers	Huber Aerostrip	George Fisher	NULL	NULL	NULL	Product type is not currently on IPAM list.
122	Fine Pore Aeration Diffusers	EDI (Environmental Dynamics International)	Limitorque/Acrodyne	NULL	NULL	NULL	Product type is not currently on IPAM list.
123	Fine Pore Aeration Diffusers	Xylem - Sanitaire	Norgren	NULL	NULL	NULL	Product type is not currently on IPAM list.
124	Submersible Mixers / Propeller Pumps	Sulzer	Burkett	NULL	NULL	NULL	Product type is not currently on IPAM list.
125	Submersible Mixers / Propeller Pumps	Landia	McBerns	NULL	NULL	NULL	Product type is not currently on IPAM list.
126	Submersible Mixers / Propeller Pumps	KSB	KSB Australia Pty Ltd	NULL	NULL	NULL	Product type is not currently on IPAM list.
127	Submersible Mixers / Propeller Pumps	Grundfos	Grundfos Pumps Pty Ltd	Grundfos	NULL	NULL	Product type is not currently on IPAM list.
128	Submersible Mixers / Propeller Pumps	Flygt	Xylem Water Solutions Ltd	NULL	NULL	NULL	Product type is not currently on IPAM list.
129	Submersible Mixers / Propeller Pumps	Sulzer (ABS)	Sulzer Australia Pty Ltd	ABS	NULL	NULL	Product type is not currently on IPAM list.
130	Submersible Mixers / Propeller Pumps	Sardik	Sardik Engineering (Aust) Pty Ltd	NULL	NULL	NULL	Product type is not currently on IPAM list.
131	Submersible Mixers / Propeller Pumps	PAX Water Technologies	Pax Water Technologies Inc	NULL	NULL	NULL	Product type is not currently on IPAM list.
132	Submersible Mixers / Propeller Pumps	SEW-Eurodrive	SEW-Eurodrive	NULL	NULL	NULL	Product type is not currently on IPAM list.
133	Line-Shaft Mixers	Sardik	Sardik Engineering (Aust) Pty Ltd	NULL	NULL	NULL	Product type is not currently on IPAM list.
134	Membranes - Micro / Ultrafiltration	Koch Puron	Koch Industries, Inc.	NULL	NULL	NULL	Product type is not currently on IPAM list.
135	Membranes - Micro / Ultrafiltration	GE ZeeWeed (LEAPmbr)	Suez Waters USA Incorporated	NULL	NULL	NULL	Product type is not currently on IPAM list.
136	Membranes - Micro / Ultrafiltration	Pentair X-flow	Pentair	NULL	NULL	NULL	Product type is not currently on IPAM list.
137	Disc Filters	Amiad	Amiad Water Systems	NULL	NULL	NULL	Product type is not currently on IPAM list.
138	Disc Filters	Tekleen	Tekleen Automatic Filters Inc	NULL	NULL	NULL	Product type is not currently on IPAM list.
139	Disc Filters	Liquitek (Aqua-Aerobics) - Cloth Media Filter	Liquitek Pty Ltd	NULL	NULL	NULL	Product type is not currently on IPAM list.

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140	Disc Filters	CST – Cloth Media Filter	CST Wastewater Solutions	NULL	NULL	NULL	Product type is not currently on IPAM list.
141	Disc Filters	Veolia – Hydrotech	Veolia Environnement S.A.	Veolia	NULL	NULL	Product type is not currently on IPAM list.
142	Sludge Thickeners	Huber – Rotary Thickener	Huber Australia / Hydroflux Pty Ltd	HUBER	NULL	NULL	Product type is not currently on IPAM list.
143	Sludge Thickeners	CST – Rotary Thickener	CST Wastewater Solutions Pty Ltd	NULL	NULL	NULL	Product type is not currently on IPAM list.
144	Sludge Thickeners	FKC Rotary Screen Thickener	FKC Co., Ltd.	NULL	NULL	NULL	Product type is not currently on IPAM list.
145	Sludge Thickeners	Andritz	Andritz AG	NULL	NULL	NULL	Product type is not currently on IPAM list.
146	Sludge Thickeners	Giotto (Previously Sernagiotto/Siemens)	Giotto Water	Sernagiotto	NULL	NULL	Product type is not currently on IPAM list.
147	Sludge Thickeners	Alfa Laval – Rotary Thickener	Alfa Laval AB	NULL	NULL	NULL	Product type is not currently on IPAM list.
148	Heat Exchangers	Dimpleflo	NULL	NULL	NULL	NULL	Product type is not currently on IPAM list.
149	Flame Arrestors	Groth	Groth Corporation	NULL	NULL	NULL	Product type is not currently on IPAM list.
150	Sludge Dewatering Equipment	Alfa Laval	Alfa Laval	NULL	NULL	NULL	Product type is not currently on IPAM list.
151	Sludge Dewatering Equipment	Andritz	Andritz Group	NULL	NULL	NULL	Product type is not currently on IPAM list.
152	Sludge Dewatering Equipment	Flottweg	Flottweg Australia PTY LTD	NULL	NULL	NULL	Product type is not currently on IPAM list.
153	Sludge Dewatering Equipment	Huber	Huber Australia / Hydroflux	NULL	NULL	NULL	Product type is not currently on IPAM list.
154	Sludge Dewatering Equipment	Ishigaki	Ishigaki Company Ltd	NULL	NULL	NULL	Product type is not currently on IPAM list.
155	Sludge Dewatering Equipment	FKC Dewatering Screw Press	FKC Co., LTD.	NULL	NULL	NULL	Product type is not currently on IPAM list.
156	Sludge Dewatering Equipment	Giotto (previously Sernagiotto / Siemens)	Giotto Water	NULL	NULL	NULL	Product type is not currently on IPAM list.
157	Conveyors - Screw	Spirac	SPIRAC Pty. Ltd.	NULL	NULL	NULL	Product type is not currently on IPAM list.
158	Conveyors -Belt	Sanwest	Sanwest Pty Ltd	NULL	NULL	NULL	Product type is not currently on IPAM list.
159	Chemical Dosing Pumps and Systems	Grundfos – Alldos	Grundfos Pumps Pty Ltd	Grundfos	NULL	NULL	Product type is not currently on IPAM list.
160	Chemical Dosing Pumps and Systems	Prominent Fluid Controls	Prominent Fluid Controls	NULL	NULL	NULL	Product type is not currently on IPAM list.
161	Chemical Storage Tanks	Chemstore Group (formerly Gebel Chemquip)	Chemstore Group	NULL	NULL	NULL	Product type is not currently on IPAM list.
162	Chemical Storage Tanks	Bushman	Bushman tank	NULL	NULL	NULL	Product type is not currently on IPAM list.
163	Chlorinators	Wallace & Tiernan (Siemens)	Siemens	NULL	NULL	NULL	Product type is not currently on IPAM list.
164	Polyelectrolyte Batching Systems	Grundfos - Alldos	Grundfos Pumps Pty Ltd	Grundfos	NULL	NULL	Product type is not currently on IPAM list.
165	Polyelectrolyte Batching Systems	Prominent Fluid Controls	Prominent Fluid Controls	NULL	NULL	NULL	Product type is not currently on IPAM list.
166	Polyelectrolyte Dosing Feeder	Prominent Fluid Controls	Prominent Fluid Controls	NULL	NULL	NULL	Product type is not currently on IPAM list.
167	Air Compressor - Reciprocating	Atlas Copco	Atlas Copco Group	NULL	NULL	NULL	Product type is not currently on IPAM list.
168	Air Compressor - Reciprocating	Ingersoll Rand	Ingersoll Rand Inc.	NULL	NULL	NULL	Product type is not currently on IPAM list.
169	Air Compressor - Reciprocating	Kaeser	Kaeser Compressors, Inc	NULL	NULL	NULL	Product type is not currently on IPAM list.
170	Air Compressor -Rotary Screw Type	Atlas Copco	Atlas Copco Group	NULL	NULL	NULL	Product type is not currently on IPAM list.
171	Air Compressor -Rotary Screw Type	Ingersoll Rand	Ingersoll Rand Inc.	NULL	NULL	NULL	Product type is not currently on IPAM list.
172	Air Compressor -Rotary Screw Type	Kaeser	Kaeser Compressors, Inc	NULL	NULL	NULL	Product type is not currently on IPAM list.
173	Air Compressor -Rotary Screw Type	Gardner Denver / CompAir	Gardner Denver	NULL	NULL	NULL	Product type is not currently on IPAM list.
174	Gearboxes (see also 'Gearboxes - Dual input spur')	Sumitomo (previously Hansen)	Sumitomo Heavy Industries, Ltd.	NULL	NULL	NULL	Product type is not currently on IPAM list.
175	Gearboxes (see also 'Gearboxes - Dual input spur')	SEW-Eurodrive	SEW-Eurodrive Pty Ltd	NULL	NULL	NULL	Product type is not currently on IPAM list.
176	Gearboxes (see also 'Gearboxes - Dual input spur')	Borg Warner	BorgWarner Inc	NULL	NULL	NULL	Product type is not currently on IPAM list.
177	Macerators	Mono Ezstrip Muncher	Mono Pumps (Aust) Pty Ltd	EZstrip Muncher	NULL	NULL	Product type is not currently on IPAM list.
178	Macerators	Sulzer (previously JWC Environmental) Muffin Monster	Sulzer Australia Pty Ltd	Sulzer	NULL	NULL	Product type is not currently on IPAM list.
179	Pump Rails	NULL	NULL	NULL	NULL	Stainless Steel 316 Pump manufacturer to specify rail thickness	IPAM approved.
180	Door Switches	Camsco SM202	Camsco electric	NULL	NULL	NULL	Product type is not currently on IPAM list.
181	Gas Engines	Jenbacher	INNIO Jenbacher	NULL	NULL	NULL	Product type is not currently on IPAM list.
182	Submersible sewage pump with grinder	Wilo Australia	Wilo Australia Pty Ltd	Wilo	NULL	NULL	IPAM approved with comment "Use is subject to acceptance by SP".
183	Submersible sewage pump with grinder	KSB	KSB Australia Pty Ltd	KSB	NULL	NULL	IPAM approved
184	Submersible sewage pump with grinder	Xylem	Xylem Water Solutions Ltd	Flygt	NULL	NULL	IPAM approved

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185	Submersible sewage pump with grinder	Sulzer	Sulzer Pumps Aust Pty Ltd	NULL	NULL	NULL	IPAM approved
186	Submersible sewage pump with grinder	Grundfos	Grundfos Pumps Pty Ltd	Grundfos	NULL	NULL	IPAM approved
187	Submersible sewage pump with grinder	Cmni Grind	Aquatec Fluid Systems Pty Ltd	Omni Grind Turbine Pump	NULL	NULL	IPAM approved
188	Valves - Electrical Actuator	Rotork	Rotork Australia Pty Limited	Rotork	NULL	Rotork IQ 415 Volt 3 phase 50 Hz power supply.	IPAM accepted with comment "Refer to Unitywater's Accepted Electrical Equipment List." Other options will be considered for single phase powered or DC ELV valves.
189	Valves - Electrical Actuator	Auma	AUMA Riester GmbH & Co. KG	Auma	NULL	NULL	IPAM accepted with comment "Refer to Unitywater's Accepted Electrical Equipment List."
190	Valves - Electrical Actuator	Georg Fisher	Georg Fischer Piping Systems	EA15 24vdc Actuator with ball valve	NULL	NULL	IPAM accepted with comment "Refer to Unitywater's Accepted Electrical Equipment List."
191	Valves - Electrical Actuator	Limitorque/Acrodyne	Acrodyne Pty Ltd	Limitorque MX and QX Series	NULL	NULL	IPAM accepted with comment "Refer to Unitywater's Accepted Electrical Equipment List."
192	Solenoid Valve	Norgren	Norgren	Norgren	NULL	Process Systems B25-2-2-8VM 24V DC	IPAM accepted with comment "Refer to Unitywater's Accepted Electrical Equipment List."
193	Solenoid Valve	Burkert	Bürkert	Burkett	NULL	Burkert type 0331	IPAM accepted with comment "Refer to Unitywater's Accepted Electrical Equipment List."
194	Gearboxes - Dual input spur	Acrodyne/Limitorque	Acrodyne/Limitorque	Acrodyne Spur Gear (V-Type)	DN350 to DN750	Gearboxes shall comply with AS/NZS 2638.2 Section 6. Input shaft and output sleeve shall operate in the same direction. Directional arrows for open/close operation to be stamped on drive spindles.	IPAM approved with comment "Use is subject to acceptance by SP".
195	Gearboxes - Dual input spur	Rotork	Rotork	Rotork IS Multi-turn Spur Gearbox	DN350 to DN750	Gearboxes shall comply with AS/NZS 2638.2 Section 6. Input shaft and output sleeve shall operate in the same direction. Directional arrows for open/close operation to be stamped on drive spindles.	IPAM approved with comment "Use is subject to acceptance by SP".
196	Gearboxes - Dual input spur	SAMBO	SAMBO	SAMBO SB-SR Multi Turn Spur Gearbox	DN350 – DN750	Gearboxes shall comply with AS/NZS 2638.2 Section 6. Input shaft and output sleeve shall operate in the same direction. Directional arrows for open/close operation to be stamped on drive spindles.	IPAM approved with comment "Use is subject to acceptance by SP".
197	Odour control	McBerns	McBerns Pty Ltd	Vent & Ground Mount Odour Filter	DN50, 100, 150, 300, 375, 1200	None	IPAM approved
198	Non-return valves	Iplex	Iplex	Flap valve	DN50 to DN300	NULL	IPAM approved, with no comment.
199	Non-return valves	Iplex	Iplex	Reflux valve fabricated	DN100	NULL	IPAM approved, with no comment.
200	Non-return valves	Vinidex	Vinidex	Flap valve	DN50 to DN100	NULL	IPAM approved, with no comment.
201	Non-return valves	Hygrade Water	Hygrade Water	WaStop Non-return valves	DN75 to DN1800	All Di fittings to be wrapped	IPAM approved, with no comment.
202	Non-return valves	Fluid Control	Fluid Control	Red valve - Tideflex check valves	DN50 to DN2400	All Di fittings to be wrapped	IPAM approved, with no comment.
203	Non-return valves	HMA Flow & Industrial - Valveco	HMA Flow & Industrial - Valveco	Proflex Rubber Check Valve	DN 25 to DN 2500	All Di fittings to be wrapped	IPAM approved, with no comment.
204	Non-return valves - free acting (without counterweight) Swing Check	HMA Valveco – ValMatic Swing-flex	HMA Valveco	Valmatic Swing-flex	DN50 - DN600	MIN. PN16, Thermal bonded polymeric coating	IPAM approved.
205	Non-return valves - free acting (without counterweight) Swing Check	Dobbie Dico	Dobbie Dico	NULL	DN80 to DN900	MIN. PN16, Thermal bonded polymeric coating	IPAM approved with comment "Use is subject to acceptance by SP".
206	Non-return valves - free acting (without counterweight) Swing Check	AVK	AVK	Swing Check Valve 41/25	Up to DN50	MIN. PN16, Thermal bonded polymeric coating	IPAM approved with comment "Use is subject to acceptance by SP".

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207	Non-return valves - free acting (without counterweight) Swing Check	AVK	AVK	Swing Check Valve 41/8X	DN80 to DN300	MIN. PN16, Thermal bonded polymeric coating	IPAM approved with comment "Use is subject to acceptance by SP".
208	Non-return valves - free acting (without counterweight) Swing Check	Challenger Valves	Challenger	RSSC	DN80 to DN375	MIN. PN16, Thermal bonded polymeric coating	IPAM approved with comment "Use is subject to acceptance by SP".
209	Non-return valves - free acting (without counterweight) Swing Check	Pentair – Keystone Figure 87L	Pentair	Keystone Figure 87L	DN50 to DN600	MIN. PN16, Thermal bonded polymeric coating	IPAM approved with comment "Use is subject to acceptance by SP".
210	Non-return valves - free acting (without counterweight) Swing Check	AVFI	AVFI PtyLtd	AVFI - RSFC	DN80 – DN600	MIN. PN16, Thermal bonded polymeric coating	IPAM approved, with comment 'NOT ACCEPTED BY UW'
211	Bonnetted knife gate valve - Stainless Steel	None	None	None	Up to DN600	Body stainless steel Grade 316. Bonnet stainless steel Grade 316. Gate stainless steel Grade 316. Gland Follower stainless steel Grade 304 or 316. Spindle stainless steel grade 304 or 316. Yoke/Pillar/Bridge stainless steel Grade 304 or 316. Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel Grade 316.	
212	Metal seated gate valves, thermal bonded polymeric coating	AVK	AVK	Series 580	DN375 – DN600	All DI fittings to be wrapped. All valves shall be restrained	IPAM approved
213	Metal seated gate valves, thermal bonded polymeric coating	AVK	AVK	Sureflow Series 2580	DN375 – DN600	All DI fittings to be wrapped. All valves shall be restrained	IPAM approved
214	Flowmeter - Network Meter	ABB	ABB	ABB	NULL	BSPT threaded connections. Sutable for sewage	IPAM approved, with comment 'ABB Water master'
215	Flowmeter - Network Meter	Siemens	Siemens	Siemens	NULL	BSPT threaded connections. Sutable for sewage	IPAM approved, with comment 'Use is subject to acceptance by UW'
216	Flowmeter - Network Meter	E & H	E & H	E & H	NULL	BSPT threaded connections. Sutable for sewage	IPAM approved, with comment 'NOT ACCEPTED BY UW'
217	Flowmeter - Network Meter	Emerson	Emerson	Emerson	NULL	BSPT threaded connections. Sutable for sewage	IPAM approved, with comment 'NOT ACCEPTED BY UW'
218	Actuator - Chlorine Auto Shut Off System	Chlorshield	Westwater Enterprises Pty Ltd	Chlorshield	NULL	NULL	Product type is not currently on IPAM list.
219	Actuator - Gearbox	AVFI Actuator Bevel Gearbox SB-V2M 4:1 1500Nm 190kN	AVFI Actuator Bevel Gearbox SB-V2M 4:1 1500Nm 190kN	NULL	NULL	NULL	Product type is not currently on IPAM list.