



APPROVED MATERIALS

AM-3 WATER SUPPLY

Table 3: Water Supply

Materials that are not on the following table MUST be approved by Council – refer to – Chief Engineer

Updated 21.01.20

Note: All parts of the water supply system in contact with drinking water need to be designed using components and materials that comply with AS/NZS 4020

	Category / Material	Application	Standard	Product / Comment	Recommended Manufacturer	Recommended Supplier
AM-3.1	Water Pipe	<p>Bulk water mains: larger than 200mm Ø. These to be specifically approved and specified by Council.</p> <p>Principal mains: 100mm, 150mm and 200mm Ø either uPVC or PE</p> <p>Rider mains: 50mm Ø (ID PVC), 63mm Ø (OD MDPE/PE 80)</p> <p>Services: 20mm, 25mm, 40mm and 50mm Ø</p>				
AM-3.1.1	Spiral-Welded Steel Pipe	Generally (but not limited to) bulk mains unless otherwise approved	NZS 4442 or AS 1579	<ul style="list-style-type: none"> ▪ Rubber ring joints and Polyken YG111 external wrapping or speed steel with polyethylene coatings ▪ Internal linings include concrete, epoxy and galvanised 	Steelpipe New Zealand	Mico Pipelines

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AM-3.1.2	Ductile Iron Class K9	Bulk mains unless otherwise approved	AS/NZS 2280 and amendments	<ul style="list-style-type: none"> Light cement lined with Tyton joints. External protection with greensleeve Generally suspended pipes and high structural loadings 	Tubemakers of Australia	Mico Pipelines
AM-3.1.3	Ductile Iron Pipe, Light Cement Lined Tyton Excel PN20 and PN35	Bulk mains unless otherwise approved	AS/NZS 2280 and amendments	<ul style="list-style-type: none"> With Tyton joint elastomeric seals and socket/spigot joints (with blue polyethylene sleeving) not for use in high water table areas Asmuss Water Systems Licence #SMK0883 	Asmuss Water Systems	Asmuss Water Systems
AM-3.1.4	PVC Pipes and Fittings for Pressure Applications	Bulk, principal and rider mains	AS/NZS 1477	<ul style="list-style-type: none"> Coloured white Joints should be spigot and socket rubber ring type (Z joint). Solvent cement joint should not be used IPLEX Licence #SMK02570 RX Plastics Licence Tel.Lic0001 	IPLEX Pipelines New Zealand Ltd Marley New Zealand Limited RX Plastics Ltd	Humes Pipeline Systems Hynds Pipe Systems Ltd Mico Pipelines
AM-3.1.5	uPVC	Bulk, principal and rider mains	AS/NZS 1477	<ul style="list-style-type: none"> Joints should be spigot and socket rubber ring type (Z joint). Solvent cement joint should not be used IPLEX Licence #SMK02570 RX Plastics Licence Tel.Lic0001 	IPLEX Pipelines New Zealand Ltd Marley New Zealand Limited RX Plastics Ltd	Humes Pipeline Systems Hynds Pipe Systems Ltd Mico Pipelines
AM-3.1.6	mPVC RRJ	Bulk, principal and rider mains	AS/NZS 4765: Series 2	<ul style="list-style-type: none"> Joints should be spigot and socket rubber ring type (Z joint). Solvent cement should not be used 	IPLEX Pipelines New Zealand Ltd Marley New Zealand Limited	Humes Pipeline Systems Hynds Pipe Systems Ltd

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					RX Plastics Ltd	Mico Pipelines
AM-3.1.7	Polyethylene Pipe (MDPE) PE80, PN12.5, SDR11 Pipes >63mm OD should be PE100	Mains up to and including suggest 50mm (63mm OD)	AS/NZS 4130 and amendments	<ul style="list-style-type: none"> ▪ Pipes should be butt or fusion welded in accordance with the manufacturer's recommendations, and the standard coloured blue or blue jacket ▪ Unrestrained mechanical couplers can be used where appropriate and meets relevant NZ standard ▪ IPLEX Licence #SMKP20400 ▪ RX Plastics Licence #SMKP21662 	<p>IPLEX Pipelines New Zealand Ltd</p> <p>Marley New Zealand Limited</p> <p>RX Plastics Ltd</p>	<p>Humes Pipeline Systems</p> <p>Hynds Pipe Systems Ltd</p> <p>Mico Pipelines</p>
AM-3.1.8	Polyethylene Pipe (HDPE) PE100, PN12.5, SDR13.6	Mains 100mm Ø (125mm OD) and greater	AS/NZS 4130 and amendments	<ul style="list-style-type: none"> ▪ Pipes should be butt or fusion welded in accordance with the manufacturer's recommendations, and the standard coloured blue or blue jacket ▪ Unrestrained mechanical couplers can be used where appropriate and meets relevant NZ standard ▪ IPLEX Licence #SMKP20400 ▪ RX Plastics Licence #SMKP21662 	<p>Asmuss Water Systems</p> <p>IPLEX Pipelines New Zealand Ltd</p> <p>Marley New Zealand Limited</p> <p>RX Plastics Ltd</p>	<p>Asmuss Water Systems</p> <p>Humes Pipeline Systems</p> <p>Hynds Pipe Systems Ltd</p> <p>Mico Pipelines</p>
AM-3.1.9	Copper Tube 20-50mm Half-Hard	BPD on service mains	NZS 3501	<ul style="list-style-type: none"> ▪ For use with RPZ backflow prevention devices only 		Mico Metals
AM-3.1.10	Ductile Iron Fittings and Pipes	For water supply connections and sewerage pressure pipelines.	AS/NZS 2280:2014 ISO9001:2015	<ul style="list-style-type: none"> ▪ Product must be fit for purpose 	Derwent Industries Ltd	Hygrade, Hynds, Mico, Plumbing world, Pipe & Infrastructure,

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						Water supply products
AM-3.3	Fittings					
AM-3.3.1	Cast-Iron Socket and Spigot Fittings Cast-Iron Flanges		Flanges to be to AS 4087-2011 with required pressure (PN) rating to be specified. Flange coatings to be to AS/NZS 4158	<ul style="list-style-type: none"> ▪ Rated at PN16 or higher ▪ Epoxy coated 	Gillies Metaltech	HJ Asmuss & Company Limited
AM-3.3.2	Ductile-Iron Pipe Flanges, Socket and Spigot Fittings Flanges		Flanges to be to AS 4087-2011 with required pressure (PN) rating to be specified. Flange coatings to be to AS/NZS 4158		Crevet Pipelines Asmuss Water Systems	Humes Pipeline Systems Hygrade Products Ltd Mico Pipelines Asmuss Water Systems
AM-3.3.3	Stand-Alone Flanges		Flanges to be to AS 4087-2011 or AS 2129 (for mild steel) with required pressure (PN) rating to be specified. Flange coatings to be AS/NZS 4158	<ul style="list-style-type: none"> ▪ PVC, ductile or cast-iron ▪ Steel and tube – unflanged adaptor – ductile iron 	IPLEX Pipelines New Zealand Ltd Marley New Zealand Limited Steel and Tube Holdings Limited Asmuss Water Systems	Humes Pipeline Systems Hynds Pipe Systems Ltd Mico Pipelines Asmuss Water Systems

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AM-3.3.4	Bolts, Nuts and Washers to be Hot-Dipped Galvanised as an Alternative to 316-Grade Stainless Steel		AS/NZS 1111 and 1112	<ul style="list-style-type: none"> ▪ ISO metric hexagon commercial bolts and screws and ISO metric hexagon nuts, including thin nuts, slotted nuts and castle nuts ▪ Hot-dipped galvanised bolts, nuts and washers need to be wrapped in denso tape ▪ This particularly applies for corrosive soil and marine conditions 	Manufacturer who meets the required standard	<p>Humes Pipeline Systems</p> <p>Hynds Pipe Systems Ltd</p> <p>Mico Pipelines</p> <p>Asmuss Water Systems</p>
AM-3.3.5	Stainless Steel Bolts, Nuts and Washers are acceptable alternatives to Hot-Dipped Galvanised Fastenings, provided they are 316-Grade Stainless Steel with Factory Applied Molybond Coating		Complying with AS 1252 – high strength steel fastenings	<ul style="list-style-type: none"> ▪ Stainless steel bolts, nuts and washers need to be wrapped in denso tape ▪ This particularly applies for corrosive soil and marine conditions ▪ Thread binding may occur and the bolts should be cut off if needed to be un-wound 	Manufacturer who meets the required standard	<p>Humes Pipeline Systems</p> <p>Hynds Pipe Systems Ltd</p> <p>Mico Pipelines</p> <p>Asmuss Water Systems</p>
AM-3.3.6	<p>Gibaults</p> <ul style="list-style-type: none"> - Cast-Iron (coating as per standard) - M16 316 Stainless Steel (with clips fusion coating as per standard) 		<p>AS/NZS 4158 and amendments</p> <p>Coating to ASTM A276</p>	<ul style="list-style-type: none"> ▪ Use 316-grade stainless steel bolts as a preference ▪ Use 316-grade stainless steel fasteners 	<p>Gillies Metaltech</p> <p>Viking Johnson – Maxifit (with Sheraplex coated bolts)</p> <p>Crevet Pipelines Milnes Pty Ltd</p> <p>Asmuss Water Systems</p>	<p>Humes Pipeline Systems</p> <p>Hynds Pipe Systems Ltd</p> <p>Mico Pipelines</p> <p>Asmuss Water Systems</p>

	Category / Material	Application	Standard	Product / Comment	Recommended Manufacturer	Recommended Supplier
AM-3.3.7	Unrestrained Mechanical Couplings <ul style="list-style-type: none"> - Ductile-iron (nylon coating as per standard) - M16 316-Grade Stainless Steel Barrel (with clips fusion coating as per standard) 	Up to 200mm DI barrels and backing rings or SS barrels with DI backing rings. Above 200mm note in item 1	AS/NZS 4998 AS/NZS 4158	<ul style="list-style-type: none"> ▪ Use hot-dipped galvanised bolts as per 3.1.4 or 316-grade stainless steel bolts ▪ Use 316-grade stainless steel fasteners 	Gillies Metaltech Viking Johnson Crevet Pipelines Milnes Pty Ltd AVK Australia Pty Ltd Asmuss Water Systems (recommended for Gibaults >200mm (ID))	Humes Pipeline Systems Hynds Pipe Systems Ltd Mico Pipelines Asmuss Water Systems
AM-3.3.8	MDPE Fittings <ul style="list-style-type: none"> - Electro Fusion - Butt Fusion - Mechanical <50mm 		AS/NZS 4129	<ul style="list-style-type: none"> ▪ Agru butt welding and electro fusion fittings ▪ "Plassim" MDPE fitting to AS/NZS 4129 – Licence No: WMKA21062 ▪ "Magnum" MDPE fitting to AS/NZS 4129 – Licence No: SMK02432 ▪ Viking Johnson aqua fast, aqua grip and ultra-grip mechanical fittings for polyethylene pipe ▪ Hawle System 2000 mechanical fittings for polyethylene pipe ▪ Innogaz ▪ Marley Licence #1271 ▪ Plasson Licence #1494 and 1271 ▪ Asmuss Alprene A16 Easygrip Licence #1157 ▪ Plasson series one pushfit fitting ▪ Hawle HAKU Saddle No.5250 	IPLEX Pipelines New Zealand Ltd Marley New Zealand Limited Plasson Waters & Farr Friar Couplings George Fischer	Asmuss Plastic Systems Limited Hygrade Products Ltd RX Plastics Ltd Humes Pipeline Systems Hynds Pipe Systems Ltd Mico Pipelines IPLEX Pipelines New Zealand Ltd

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				<ul style="list-style-type: none"> Hanson EasyFit MDPE Compression 	Hanson	
AM-3.3.9	Brass Fittings Alloy 486		AS 1567 – 486 ASTM – B21 485000	<ul style="list-style-type: none"> Recommend New Zealand manufacturer due to variability of imported materials 	Spartan Engineering Co. Ltd	Humes Pipeline Systems Hynds Pipe Systems Ltd Mico Pipelines Asmuss Water Systems
AM-3.3.10	Manifold			<ul style="list-style-type: none"> Acuflo GM900STR Bronze Manifold Assembly Acuflo CM2000 Compostible Manifold 	Acuflo Industries Ltd	Humes Pipeline Systems Hynds Pipe Systems Ltd Mico Pipelines Asmuss Water Systems
AM-3.3.11	Ferrules: Gunmetal Polyethylene Fittings					
AM-3.3.12	Gaskets	Potable water supply fittings		<ul style="list-style-type: none"> Garlock 2500 Gasket 	Garlock Sealing Industries	Blackwoods Paykels Asmuss Water Systems
AM-3.3.13	Bolted Unrestraint Coupers	For jointing spigot ends of pipes, other than PE, in water	AS/NZS 4998:2009	<ul style="list-style-type: none"> Product must be fit for purpose 	Derwent Industries Ltd	Hygrade, Hynds, Mico, Plumbing world, Pipe &

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		and sewerage applications.				Infrastructure, Water supply products
AM-3.3.14	Repair and Offtake Stainless Steel Clamps	For repairing cracks, seal for decommissioned service connections, holes, splits and pinholes in rigid water and sewerage pipes.	AS 4181-2013	<ul style="list-style-type: none"> ▪ Product must be fit for purpose ▪ 	Derwent Industries Ltd	Hygrade, Hynds, Mico, Plumbing world, Pipe & Infrastructure, Water supply products
AM-3.3.15	Plastic Pipe Fittings	For medium Density Polyethylene pipe Fittings	AS/NZS4129 AS/NZS4020	<ul style="list-style-type: none"> ▪ Product must be fit for purpose 	Hansen Products Ltd	All Plumbing and Pipeline suppliers
AM-3.4	Valves					
AM-3.4.1	Sluice Valves ≥80mm Resilient Seated Anti-Clockwise Closing Rated at PN16 External and Internal Protective Coating Flanges to be Raised Face and Drilled as Per Standard	Bulk, principal and rider mains	AS/NZS 2638.2 NZS/BS 5163 Class 1 AS/NZS 4158 and amendments Flanges to be to AS 4087-2011 with required pressure (PN) rating to be specified Flange coatings to be to AS/NZS 4158	<ul style="list-style-type: none"> ▪ Teflon gland packing or 2 or more O ring seals and dust cover ▪ In-line valves should be the same diameter as the reticulation main ▪ Asmuss Water Systems Licence #PRD / R61 / 0412 / 2 ▪ Hawle Licence #SMK20123 ▪ AVFI non-rising stem resilient valve DN375 	Gillies Metaltech Asmuss Water Systems Crevet Pipelines Hawle AVK Australia Pty Ltd Hygrade Products Ltd	Pipe & Infrastructure Ltd Asmuss Water Systems Humes Pipeline Systems Hynds Pipe Systems Ltd Mico Pipelines

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AM-3.4.2	Gate Valves 25mm and 40mm		BS 5154 or AS 1628	<ul style="list-style-type: none"> ▪ Clockwise closing dezincification-resistant materials or LG2 gunmetal, PN16 or higher ▪ KITZ Corporation Licence #WMKA02054 ▪ Pegler Hattersley Licence #1850 	KITZ Corporation (Licence #WMKA02054) Pegler Hattersley (Licence #1850)	Humes Pipeline Systems Hynds Pipe Systems Ltd Pipe & Infrastructure Ltd Mico Pipelines
AM-3.4.3	Gate Valve 50mm	Rider mains and connections	NZS/BS 5163	<ul style="list-style-type: none"> ▪ Clockwise closing, resilient seating 	Hawle (Licence #WMKA20123) AVK Australia Pty Ltd	Humes Pipeline Systems Hynds Pipe Systems Ltd Pipe & Infrastructure Ltd Mico Pipelines Asmuss Water Systems
AM-3.4.4	Butterfly Valves			<ul style="list-style-type: none"> ▪ Specific design and approval 		
AM-3.4.5	Resilient Seated Gated Valves for Waterworks purposes	for isolating water supply and sewerage pressure pipelines	AS/NZS 2638.2:2011	<ul style="list-style-type: none"> ▪ Product must be fit for purpose 	Derwent Industries Ltd	Hygrade, Hynds, Mico, Plumbing world, Pipe & Infrastructure, Water supply products
AM-3.5	Fire Hydrants					

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AM-3.5.1	Tall/Medium Pattern Screw-Down Standard Clockwise Closing, Rated to PN16 or Higher Coated as Per Standard		NZS/BS 750 AS/NZS 4158 and amendments	<ul style="list-style-type: none"> ▪ O ring sealing system. Drain holes for frost protection are not permitted ▪ The use of ball hydrants is not permitted 	Crevet Pipelines Hydravalve Gillies Metaltech Asmuss Water Systems Hawle	Tudor Pipeline Supplies Co Ltd Humes Pipeline Systems Pipe & Infrastructure Ltd Mico Pipelines
AM-3.6	Tapping Bands and Saddles		Standards Australia MP52			
AM-3.6.1	40mm-200mm LG2 Gunmetal DR Type, Fully Enclosed Polyethylene type, fully enclosed with stainless steel bolts		AS/NZS 4793 MP52 – Spec025	<ul style="list-style-type: none"> ▪ Tapping bands should be 25mm or greater for live tapping ▪ Fully enclosed for mPVC blue brute, super blue, cast iron and spiral steel (AC sizing) ▪ Swivel bolt type with a flexible band for existing AC water main ▪ Milnes Pty Ltd Licence #W134 ▪ Milnes Pty Ltd Series GM60A ▪ Milnes Pty Ltd Series 61 ▪ Maintenance ▪ Milnes Pty Ltd insulated type for ductile, cast or steel mains Licence #W134 ▪ Giltech Precision Castings ▪ Plasson Licence #1494 	Milnes Pty Ltd	Mico Pipelines
AM-3.7	Water meters					
AM-3.7.1	20mm Manifold Meters		OMIL R49-1	<ul style="list-style-type: none"> ▪ Meters must be rated Q3 = 2.5m³/hour and must have a minimum R value (Q3/Q1) of 160 	Elster / Kent Ltd Sensus	A.D Riley and Co. Ltd DEECO Services Ltd

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				<ul style="list-style-type: none"> ▪ Meters must be capable of transmitting a pulse output (for the purposes of data logging or remote reading) ▪ Construction should be dezincification-resistant (DR) brass to NZ/AS 3688 or; ▪ Construction of composite materials subject to approval of material specification 	Actaris Pty Ltd Sapel Aquadis	Chatswood Trading Asmuss Water Systems Humes Pipeline Systems Hynds Pipe Systems Ltd Mico Pipelines
AM-3.7.2	25mm Inline Meters		OMIL R49-1	<ul style="list-style-type: none"> ▪ Meters will be rated Q3 = 6.3m³/hour and must have a minimum R value (Q3/Q1) of 160 ▪ Meters must be capable of transmitting a pulse output (for the purposes of data logging or remote reading) ▪ Construction should be dezincification-resistant (DR) brass to NZS/AS 3688 	Elster / Kent Ltd Sensus Actaris Pty Ltd Sapel Aquadis	A.D Riley and Co. Ltd DEECO Services Ltd Chatswood Trading Asmuss Water Systems Humes Pipeline Systems Hynds Pipe Systems Ltd Mico Pipelines
AM-3.7.3	40mm Inline Meters		OMIL R49-1	<ul style="list-style-type: none"> ▪ Meters will be rated Q3 = 6.3m³/hour and must have a minimum R value (Q3/Q1) of 160 ▪ Meters must be capable of transmitting a pulse output (for 	Elster / Kent Ltd Sensus Actaris Pty Ltd	A.D Riley and Co. Ltd DEECO Services Ltd Chatswood Trading

	Category / Material	Application	Standard	Product / Comment	Recommended Manufacturer	Recommended Supplier
				<p>the purposes of data logging or remote reading)</p> <ul style="list-style-type: none"> Construction should be dezincification-resistant (DR) brass to NZS/AS 3688 	<p>Sapel</p> <p>Aquadis</p>	<p>Asmuss Water Systems</p> <p>Humes Pipeline Systems</p> <p>Hynds Pipe Systems Ltd</p> <p>Mico Pipelines</p>
AM-3.7.4	Inline Meters ≥50mm		OMIL R49-1	<ul style="list-style-type: none"> Specific design and approval Design information should be provided for approval and should include the design flow rates (minimum, average, maximum), proposed meter make/model and manufacturers specifications 		<p>ABB</p> <p>A.D Riley and Co. Ltd</p> <p>DEECO Services Ltd</p> <p>Chatswood Trading</p> <p>Asmuss Water Systems</p> <p>Humes Pipeline Systems</p> <p>Hynds Pipe Systems Ltd</p> <p>Mico Pipelines</p>
AM-3.8	Tracer Wire					
AM-3.8.1	Tracer Wire	Trenchless installation rising mains		<ul style="list-style-type: none"> A continuous 4.0mm² multi-strand (minimum of 4) polythene sleeved cable 		Humes Pipeline Systems

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						Hynds Pipe Systems Ltd Mico Pipelines
AM-3.8.2	Warning Tape / Detection Tape	Open cut installation		<ul style="list-style-type: none"> ▪ Width – 100mm (min.) ▪ Thickness – 80µm ▪ Printing – TBC ▪ Printing Height – 80mm ▪ Tape Colour – TBC 	Polymark Packaging	Humes Pipeline Systems Hynds Pipe Systems Ltd Mico Pipelines
AM-3.9	Boxes (Valve, Fire Hydrant, Meter), Packers and Valve Marker Plate Cast-Iron / Ductile-Iron		NZS/BS 750	<ul style="list-style-type: none"> ▪ Hydrant cast box to NZS/BS 750 ▪ Valve cast box – to Council Standard Drawings ▪ Valve Marker Plate 		Humes Pipeline Systems Hygrade Products Ltd Hynds Pipe Systems Ltd Mico Pipelines Asmuss Water Systems
AM-3.10	Concrete Products					
AM-3.10.1	Concrete Valve / Hydrant Marker Post		To Council standard drawings		Williamson Creative Products Newstead Concrete Products	Humes Pipeline Systems Hynds Pipe Systems Ltd Mico Pipelines

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AM-3.10.2	Fire Hydrant Concrete Surrounds		To Council standard drawings			Humes Pipeline Systems Hynds Pipe Systems Ltd Mico Pipelines Asmuss Water Systems
AM-3.10.3	Valve Concrete Surrounds		To Council standard drawings			Humes Pipeline Systems Hynds Pipe Systems Ltd Mico Pipelines Asmuss Water Systems
AM-3.11	Wooden Products					
AM-3.11.1	Wooden Valve Post N/A		To Council standard drawings			
AM-3.12	Toby Boxes Cast-Iron Polyethylene		To Council standard drawings		Surecast Metals Chevron Industries 2001 Ltd Acuflow Industries Ltd	Humes Pipeline Systems Hynds Pipe Systems Ltd Mico Pipelines

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					Draper Enterprises Ltd	Asmuss Water Systems
AM-3.13	Backflow Prevention Devices		AS/NZ 2845.1	<ul style="list-style-type: none"> ▪ Types and classification of devices to meet Council requirements as assessed ▪ For dedicated fire systems, use Verifire standard 	Reliance Worldwide Ltd Asmuss Water Systems Acuflow Industries Ltd	Hydroflow Distributors Ltd DEECO Services Ltd Humes Pipeline Systems Hynds Pipe Systems Ltd Mico Pipelines Asmuss Water Systems
AM-3.14	Pipe Wrapping	All dress sets and flanged connections	To Council standard drawings		Polyken Petrotech Denso 40	Asmuss Water Systems
AM-3.15	Threaded Joint Sealing	PTFE to all threaded joints			Ceelon	
AM-3.16	Submersible Pumps	For water and wastewater pumping	Sira Certification - ISO9001:2015	<ul style="list-style-type: none"> ▪ Product must be fit for purpose 	Sulzer Australia PTY Ltd	Sulzer Australia PTY LTD, Pump and Valve Specialties Ltd, Wallace Murray Electrical Ltd