

**APPROVED MANUFACTURERS' PRODUCTS FOR WATER SYSTEMS
2017**

PRODUCT	SPECIFICATIONS	MANUFACTURER	DESCRIPTION/MODEL
CASING SPACERS	Stainless Steel Body	Advance Products & Systems	SI or SSI
		Cambridge Brass/ Power Seal	Model 4810
COUPLINGS (No Lead) AWWA C219-06 AWWA C800	<u>Watermain Pipe</u> Epoxy Coated Ductile Iron <i>(up to 300mm)</i>	Krausz	HyMax (AC Pipe) HyMax Grip (PVC/Steel)
		Cambridge Brass/ Power Seal	Model 3501
		Smith-Blair Inc.	Series 441,442 <i>with optional stainless steel hardware</i>
	<u>Water Service Pipe</u> Compression Type 19 mm to 25 mm with stop. 38mm to 50 mm, no stop required	Cambridge Brass	Series 118 NL, 119 NL
		Mueller Canada	Mueller 110 Compression Connection (Low lead)
CURB STOPS (No Lead) AWWA C800	Compression joint, ball valve, stop only, no drain.	Cambridge Brass	Series 202 NL
		Mueller Canada	300 B-25209 (Low lead)
MAIN STOPS (No Lead) AWWA C800	Compression joint Ball valve,	Cambridge Brass	Series 301 NL
		Mueller Canada	300 B-25008 (Low lead)
FITTINGS AWWA C104-08 C110-08 C111/A21.11-06	Ductile Iron Class 350 Cement Lined <i>(Up to 300mm)</i> Mechanical Joint	Bibby-Ste-Croix	
		Sigma Corp. Star ® Pipe Products Inc.	
	Ductile Iron Class 52 Cement Lined <i>(Over 300mm)</i> Mechanical Joint	Canada Pipe	

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RESTRAINERS <i>ASTM F1674</i> <i>Uni-Bell-13</i>	Mechanical Joint	Clow Canada	Tuf Grip
		Sigma Corp.	One- Lok
		Smith-Blair Inc.	120 Cam-Lock
		Star	Stargrip 4000
	Pipe Joint <i>(Bell & Spigot)</i>	Clow Canada	Series 300
		Sigma Corp.	PV-Loc
		Smith-Blair Inc.	165 Bell-Lock
		Star	Series 9000
		Ford	Un-Flange 1350-6
	PIPE (Main) <i>AWWA C301</i> <i>AWWA C900</i> <i>AWWA C905</i> <i>AWWA C906</i> <i>ASTM D3035</i> <i>ASTM D3350</i>	PVC DR-18, Class 150 <i>(100-400mm)</i>	IPEX Inc.
Royal Pipe Systems			Royal Seal DR-18
Diamond Plastics			C-900
Concrete Pressure Pipe <i>(400mm and Larger)</i>		Hyprescon (Hanson)	"PCCP" L-301
		Monroe Concrete Products Ltd.	"PCCP"
Directional Drill PVC-DR-18 Class 150		IPEX Inc.	Fusible PVC
		IPEX Inc.	Terrabrute
		Royal Pipe Systems	Cobra Lock
Directional Drill DR-11 HDPE Thermo Butt Fusion <i>CIOD (Blue Stripe)</i>		KWH Pipe	Scclairpipe
		National pipe	PE 3408/3608
PIPE (Services) <i>ASTM B88-09</i>	Cross-Linked Polyethylene 19mm to 50 mm	IPEX Inc.	Blue 904
		Rehau Industries Inc.	Municipex SDR 9
	Copper 19mm to 50mm	Manufactured in Canada or the USA	Type "K" Soft Copper <i>(Thick wall)</i>
FIRE HYDRANTS		Mueller Canada	Canada Valve Century
<i>AWWA C502</i>	2 only 63.5mm nozzles with CSA Standard thread, 5T .P.I 73.4mm 0.0., designated 12B 1 only 100mm Storz pumper connection as per ULC #S-520 Hydrant operating nut open counter clockwise Hydrant to be painted chrome yellow, with Storz cap painted gloss black. 2.1m bury complete with a 300mm barrel extension below the main seat valve to provide a standard 1.8m rod assembly. Trench depths greater than 2.1m, 1.8m trench rod assembly shall be supplied with a barrel extension of the required length below the main valve seat. All private hydrants shall be painted red.		

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VALVES <i>AWWA C-504B</i> <i>AWWA C-509</i> <i>AWWA C-512</i> <i>(Butterfly Valves are to be used only in plant when specified in the contract)</i>	Gate Valves Resilient Wedge 100mm to 400mm	Mueller	2362,2361 Series	
		Clow	F 6100	
	Butterfly Valves 450 mm to 600 mm	Mueller Canada	B3211	
		Clow Canada	M & H Style 2500	
		Val-Matic Valve	Series 2000	
	Butterfly Valves 600 mm +	Mueller Canada	Lineseal XP	
		Clow Canada	M & H Style 2500	
		Val-Matic	Series 2000	
	Combination Air Release Vacuum Breaker <i>(Vented)</i>	ARI Flow Control Ltd.	D-040 (<i>plastic, in plant use</i>) D-040-C D-060-C	
	SERVICE SADDLES	For PVC, DI, CI and AC Pipe Service Saddles must be all stainless steel, 2 bolts, tapered rubber gasket and have a minimum 150 mm wide band.	Cambridge Brass	Series 8403
			Mueller Canada	SS series
			Robar Industries Ltd.	Series 2606 – Styles 2626DB
Smith-Blair Inc.			Model No. 372	
For HDPE Pipe		Cambridge Brass/ Power Seal	Model #3412-AS-PE	
For Concrete Pressure Pipe		Smith-Blair	Model No. 362	
		JCM	Model No. 425 with fusion epoxy coating	
TAPPING SLEEVES	For PVC, DI, CI and AC pipe	Cambridge Brass/ Power Seal	Series 3460 MJ CS <i>with optional stainless steel hardware</i>	
		Mueller Canada	H-615	
		Robar Industries Ltd.	6606	
		Smith-Blair Inc.	622, 663 SS, 622 MJ	
	For HDPE Pipe	Cambridge Brass/ Power Seal		

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SERVICE BOXES & COMPONENTS	Slide Adjustment Type 25 mm and 50 mm Stainless Steel Rod Brass Cotter Pin	Mueller Canada	A 726, A728
		Bibby Ste Croix	VSB 1, VSB 2
		Star ® Pipe Products	SB #9 D1, D2
		Sigma	
VALVE BOXES & COMPONENTS	135 mm slide type, minimum 125 mm inside dia., 750 mm upper section, 1200 mm lower section, 6 mm predrilled round hole with grommet for tracer wire in upper section. When valve box is in asphalt roadway, should be 130mm screw type with frost ring.	Mueller Canada	51/4 Canadian Sliding Valve Box
		Bibby Ste Croix	VB 2100
		Star ® Pipe Products	VB 5006
		Sigma	
		Bibby Ste Croix	5 ¼" – 130mm Screw Valve Boxes with No 6 Base
REPAIR CLAMPS	For PVC, DI, CI and AC Pipe >50mm <i>(must be stainless steel with 3 bolts)</i>	Cambridge Brass	Series 425, 435
		Total Pipe Solutions	EZ-Max
		Smith-Blair Inc.	Series 261 (10" length)
		Robar	Series 5616
	For HDPE Pipe	Cambridge Brass/ Power Seal	Model #3121AS-PE
SAMPLING STATION		The Kupferle Foundry Co.	Eclipse Model #88 <i>(for cold climate)</i>
		Test Tap	Cromer Industries Corp
YARD HYDRANT	Minimum 6' Bury with 36" above grade	Boshart Industries <i>(BII)</i>	Frost Free Yard Hydrant with Optional Elbow
INSULATION	Extruded Polystyrene Sheets 50 mm thickness	Dow Chemical Canada Inc.	Highload 40 and 60
		Owens Corning	Foamular 400 and 600
			SM
ANODES (as per OPSD)	Zinc – 5.4 kg ASTM B418 T2 Magnesium – 14.5 kg ASTM B843 M-1 C Supplied with 3m of AWG #10 7 stranded copper cable having RWU-90		

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	insulation Zinc anode - white cable Magnesium anode - blue cable <i>(To be Cad-welded)</i> Zinc Service Box Anode – Pro-Line Fittings East Inc. Square Zinc Hydrant Anode – Pro-Line Fittings East Inc.		
TRACER WIRE	Coated (White) 7 strand, #10 AWG TWU75 or RW90 XLPE wire, rated at minus 40 degrees C.		
GASKET LUBRICANT <i>(NSF 61)</i>	Approved for Potable Water Systems		
HYDRANT LUBRICANT <i>(NSF 61)</i>	Food Grade Only		
Liquid Chlorine <i>(NSF/ANSI 60)</i>	12% Hypochlorite Solution		