

**CITY OF VICTORIA
APPROVED PRODUCT LIST**

Revised: 2023-02-10

MMCD Section 33 11 01 - WATERWORKS

NOTE:
 1. All waterworks product to conform to NSF61.
 2. All waterworks product to conform to NSF372 to be "lead free"..
 3. All bolts, nuts, rods and washers for use on all fittings and restraints shall be Core 10
 4. Waterworks products shall conform to CSA Standard, where applicable.

MAINLINE PIPES

MMCD Sub-Section	Manufacturer	Make / Model	Size Range	Comments/Restrictions.
2.2.1 Ductile Iron	Canada Pipe, US Pipe	Ductile PC350 AWWA C151	100mm to 450mm	
2.2.2 PVC Pressure Pipe	IPEX, NAPCO Royal Pipe	PVC DR18, PR235 AWWA C900	100mm to 300mm	
	IPEX, NAPCO Royal Pipe	PVC CIOD, PR235 AWWA C909	100mm to 450mm	Thickened bells
	NAPCO Royal Pipe	Cobra Lock PVC DR18, PR235 AWWA C900	100mm to 300mm	For use on temporary / by-pass piping situations only

FITTINGS

MMCD Sub-Section	Manufacturer	Make / Model	Size Range	Comments/Restrictions.	
2.2.4.3 Compact Ductile Iron	Sigma Star Pipe Canada Terminal City / ACS	AWWA C153	100mm to 450mm	Fittings may be HxH, HxFI, MJxMJ, MJxFI or FixFI Hub ends shall have lugs with holes suitable for restraint rods.	
2.2.4.4 & PVC Injection & 2.2.4.5 Fabricated	IPEX NAPCO Royal Pipe	C900 / C907 / C909	100mm to 450mm	Pressure class to meet or exceed mainline	
2.2.4.12 Couplings and Flanged Coupling Adaptors	EBAA	3800	100mm to 400mm	400mm available only for C900 including C909	
	ROBAR	1506	100mm to 400mm		
	ROBAR	1508	100mm to 400mm		
	ROMAC	501	100mm to 400mm		
	<i>Wide Range Couplings:</i>	ROMAC	XR501	100mm to 300mm	including C909 not approved for use with C909
		ROMAC	Alpha	100mm to 400mm	
		ROBAR	1596	100mm to 300mm	
		Smith-Blair	421	100mm to 400mm	
		Smith-Blair	461	100mm to 300mm	
	<i>Restrained Couplings:</i>	Krausz Industries	Hymax	38mm to 400mm	
EBAA		3800	100mm to 400mm	400mm for PVC only	
Ford Meter Box		Uniflange RCDD	75mm to 400mm	including C909 including C909	
Ford Meter Box		Uniflange RCPP	75mm to 400mm		
Ford Meter Box		Uniflange RCDP	75mm to 400mm		
Krausz Industries		Hymax Grip	100mm to 300mm	NOTE: Hymax not approved for use with C909	
ROMAC		Romac Alpha	100mm to 400mm	including C909	
Smith-Blair	471	100mm to 400mm	400mm for DI only		
Smith-Blair	472	100mm to 400mm			
Smith-Blair	473	100mm to 400mm			
2.2.4.13 Joint Restraint Devices	<i>Restraining MJ & PO Fittings to Ductile</i>	EBAA	1100	including C909	
		EBAA	15MJ00TD		
		EBAA	15PF00TD		
		Ford Meter Box	Uniflange 1309		
		Ford Meter Box	Uniflange 1400		
		ROMAC	PVC Romagrip		
		Sigma	SLD		
		Smith-Blair	111		
		Star Pipe Products	StarGrip		
		Star Pipe Products	All StarGrip Series 1000		

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<i>Restraining MJ & PO Fittings to PVC:</i>	EBAA	15MJ00TD	400mm	C909 use limited to SDR26 or heavier wall thickness
	EBAA	15PF00TD		
	EBAA	2000PV		
	EBAA	19MJ00		
	EBAA	19PF00		
	EBAA	2016PV		
	Ford Meter Box	Uniflange 1309		
	ROMAC	PVC Romagrip		
	ROMAC	612		
	Sigma	SLD		
	Smith-Blair	120		
	Star Pipe Products	StarGrip		
	Star Pipe Products	All StarGrip		
Star Pipe Products	Series 1000			
<i>Restraining Bell & Spigot Joints for Ductile & PVC:</i>	EBAA	1500 TD	400mm 100mm to 400mm	C900 and DI C909 and DI C909 C900 and DI C909 and DI C909 new installation only C900 and DI C900 and C909 DI only C900 and DI AWWA CI OD C900/C909 PVC/PVCO Pipe Joints C900, C909 and DI C900, C909 and DI
	EBAA	1900		
	EBAA	2916		
	Ford Meter Box	Uniflange 1390		
	Ford Meter Box	Uniflange 1399		
	Ford Meter Box	UFR 1559		
	ROMAC	611		
	Sigma	SLC		
	Sigma	SLDE		
	Smith-Blair	165		
	Star Pipe Products	1100G2C		
Star Pipe Products	StarGrip			
Star Pipe Products	Series 1000			
<i>Restraining PVC Fittings to PVC:</i>	EBAA	2500	100mm to 300mm	including C909 AWWA CI OD C900/C909 PVC/PVCO Pipe Joints
	EBAA	2600		
	Smith-Blair	136		
	Star Pipe Products	1200G2C		
<i>Restrained Flange Adaptors</i>	Star Pipe Products	Series 1000		
	Ford Meter Box	Uniflange RFAD	75mm to 400mm	DI
	Ford Meter Box	Uniflange RFAP	75mm to 400mm	Including C909, not approved for DI
2.2.4.14 Tapping Sleeves for branch connections (75mm & larger)	ROBAR	6606		Stainless steel Stainless steel Stainless steel Stainless steel Stainless steel
	ROMAC	SSTIII		
	Smith-Blair	622		
	Smith-Blair	664		
	Smith-Blair	665		
2.2.4.15 Repair Clamps	ROBAR	5616		Stainless steel Stainless steel Stainless steel Stainless steel Stainless steel Stainless steel
	ROBAR	5626		
	ROMAC	SS1		
	ROMAC	SS2		
	Smith-Blair	261		
	Smith-Blair	262		
	Cambridge	825		
2.3.1 Mainline Valves - General Requirements	Clayton			Control Valves Control Valves Control Valves
	Singer			
	Watts			
	Red & White		50mm and under	Ball & Gate Valves Ball & Gate Valves
	Watts		50mm and under	
2.3.2 Mainline Gate Valves	American Flow Cont	Series 2500	100mm to 450mm	Resilient wedge only Resilient wedge only Resilient wedge only Resilient wedge only
	CLOW		100mm to 450mm	
	Mueller Canada		100mm to 450mm	
	Terminal City	3200 Series PO x FL	100mm to 450mm	
2.3.3 Mainline Butterfly Valve	Dezurik	Series 4500		
	M & H			
	Mueller Canada			
	Pratt			

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2.3.5 Air Release/Combination Air Valves	ARI Valves Inc. Valmatic	D040		epoxy coated on inside (fusion bonded)
2.3.8 Detector Check Valves	Febco Mueller Watts Watts	800 EDCIV SS07F 1000DCV EPX	100mm	
2.5 Service Connection Pipe	REHAU	Type K Copper PEX-a	19mm to 50mm 19mm to 25mm	
2.6 Hydrants	CLOW Mueller Canada Terminal City / ACS	Canada Valve C71P	150mm 150mm 150mm	c/w Storz fitting c/w Storz fitting c/w Storz fitting; C71P long body only
2.7.2 Corporation Stops	AY Mcdonald Cambridge Mueller		19mm to 50mm 19mm to 50mm 19mm to 50mm	Ball type, compression Ball type, compression Ball type, compression

OTHER

MMCD Sub-Section	Manufacturer	Make / Model	Size Range	Comments/Restrictions.
Service Saddles	Cambridge Cambridge Canpac ROBAR ROMAC Smith-Blair	8403 8413/15 304 2616 306 372	19mm to 25mm up to 200mm	Stainless steel Stainless steel - integral c/w corp stop Stainless steel Stainless steel Stainless steel Stainless steel
Bell Joint Leak Clamps	ROBAR ROMAC Smith-Blair	5508 516 274		Stainless steel Stainless steel Stainless steel
Displacement & Floating Ball Meters	Badger Neptune Sensus Sensus Sensus	Recordall T-10 AccuSTREAM iPEARL Omni R2	19mm to 25mm 19mm to 50mm 19mm to 25mm 19mm to 25mm 38mm to 50mm	Touch read Touch read Touch read Touch read Touch read; Flanged
Compound Meters	Neptune Sensus	TRU/FLO Omni C2	50mm to 150mm 50mm to 150mm	Touch read Touch read
Turbine Meters	Neptune Sensus	High Performance Omni T2	50mm to 150mm 50mm to 150mm	Touch read Touch read
Ultrasonic Meters	Kamstrup	FIQ3101 Stainless	50mm (2")	For use on combined Domestic/Fire service
Meter Setters and Meter Resetters	AY Mcdonald Cambridge Mueller		19mm to 25mm 19mm to 25mm 19mm to 25mm	
Meter Box	Brooks Box Brooks Box DFW	37 66 Heavy duty polymer	300mm x 500mm 425mm x 750mm	H2O Loading H2O Loading not for use in road or driveways
Meter Box Lids	Terminal City / ACS Terminal City / ACS	37 66	300mm x 500mm 425mm x 750mm	H2O Loading, labeled with "Water" H2O Loading, labeled with "Water"
Meter Vault Hatches	Norinco	Model # TI4S106070AV (Roadway) Model # TI3S106070AV (Sidewalk)		Triangular lids, Traffic (H2O Loading) & Non-Traffic
Tracer Wire	Copperhead Industries Ltd.	Soloshot EHS		

MMCD Section 33 30 01 - SANITARY SEWER (Gravity)

NOTE:
 1. All concrete used in construction shall be sulphate resistant Type HS (Type 50) or alternate cement type may be approved by City Engineer.
 2. Sanitary Sewer products shall conform to CSA Standard, where applicable.
 3
 4

MAINLINE PIPES

MMCD Sub-Section	Manufacturer	Make / Model	Size Range	Comments/Restrictions.
2.2 Plastic Pipe, Mainline Smooth Profile	IPEX Northern Pipe NAPCO Royal Pipe	Ring Tite DR35 PVC DR35 PVC DR35	100mm to 1200mm 100mm to 375mm 100mm to 1200mm	

OTHER

MMCD Sub-Section	Manufacturer	Make / Model	Size Range	Comments/Restrictions.
Inspection Chamber	Orbit Plastics Ltd. Proline Fittings Inc. NAPCO Royal Pipe		100mm & 150mm 100mm & 150mm 100mm & 150mm	for 100mmØ and 150mmØ service connections
Inspection Chamber surface box	Brooks Box Brooks Box Raven	37 66	300mm x 500mm 425mm x 750mm	H2O Loading H2O Loading not for use in road or driveways
Inspection Chamber surface box lids	Terminal City / ACS Terminal City / ACS	37 66	300mm x 500mm 425mm x 750mm	H2O Loading, labeled with "Sanitary" H2O Loading, labeled with "Sanitary"
Couplings & Bushings	Fernco Mission Rollee ROMAC	Kwik couplings bolted couplings		w/stainless steel sheer band w/stainless steel sheer band w/stainless steel sheer band w/stainless steel sheer band (to AWWA C219)
Tapping Saddles	Fernco Mission Rollee		100mm & 150mm 100mm & 150mm 100mm & 150mm	flexible saddle flexible saddle flexible saddle

MMCD Section 33 34 01 - SEWAGE FORCEMAINS

NOTE:
 1 All bolts, nuts, rods and washers for use on all fittings and restraints shall be Core 10
 2 Sewage forcemain products shall conform to CSA Standard, where applicable.
 3
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MAINLINE PIPES

MMCD Sub-Section	Manufacturer	Make / Model	Size Range	Comments/Restrictions.
2.2.1 Ductile Iron	Canada Pipe, US Pipe	Ductile PC350 AWWA C151	100mm to 450mm	
2.2.2 PVC Pressure Pipe	IPEX, NAPCO Royal Pipe	PVC DR18, PR235 AWWA C900	100mm to 300mm	
	IPEX, NAPCO Royal Pipe	PVC CIOD, PR235 AWWA C909	100mm to 450mm	Thickened bells
	NAPCO Royal Pipe	Cobra Lock PVC DR18, PR235 AWWA C900	100mm to 300mm	For use on temporary / by-pass piping situations only

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FITTINGS

MMCD Sub-Section	Manufacturer	Make / Model	Size Range	Comments/Restrictions.
2.2.5 Fittings				All ferrous fittings to be epoxy coated.
2.2.5.3 Compact Ductile Iron	Sigma Star Pipe Canada Terminal City / ACS	AWWA C153	100mm to 450mm	Fittings may be HxH, HxFI, MxMJ, MxFI or FxFI Hub ends shall have lugs with holes suitable for restraint rods.
2.2.5.4 & CIOD PVC Injection & 2.2.5.5 IPSOD Fabricated	IPEX NAPCO Royal Pipe	C900 / C907 / C909	100mm to 450mm	Pressure class to meet or exceed mainline

MMCD Section 33 40 01 - STORM SEWERS (Gravity)

NOTE:
 1. All concrete used in construction shall be sulphate resistant Type HS (Type 50) or alternate cement type may be approved by City Engineer.
 2. Sanitary Sewer products shall conform to CSA Standard, where applicable.
 3
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MAINLINE PIPES

MMCD Sub-Section	Manufacturer	Make / Model	Size Range	Comments/Restrictions.
2.2 Plastic Pipe, Mainline Smooth Profile	IPEX Northern Pipe NAPCO Royal Pipe	Ring Tite DR35 PVC DR35 PVC DR35	100mm to 1200mm 100mm to 375mm 100mm to 1200mm	

OTHER

MMCD Sub-Section	Manufacturer	Make / Model	Size Range	Comments/Restrictions.
Inspection Chamber	Orbit Plastics Ltd. Proline Fittings Inc. NAPCO Royal Pipe		100mm & 150mm 100mm & 150mm 100mm & 150mm	for 100mmØ and 150mmØ service connections
Inspection Chamber surface box	Brooks Box Brooks Box Raven	37 66	300mm x 500mm 425mm x 750mm	H2O Loading H2O Loading not for use in road or driveways
Inspection Chamber surface box lids	Terminal City / ACS Terminal City / ACS	37 66	300mm x 500mm 425mm x 750mm	H2O Loading, labeled with "Storm" H2O Loading, labeled with "Storm"
Couplings & Bushings	Fernco Mission Rollee	Kwik couplings		w/stainless steel sheer band w/stainless steel sheer band w/stainless steel sheer band
Tapping Saddles	Fernco Mission Rollee		100mm & 150mm 100mm & 150mm 100mm & 150mm	flexible saddle flexible saddle flexible saddle

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34 41 13 Traffic Signals

2.16		Vehicle Signal Heads		McCain	
2.19		Vehicle Signal Mounting Hardware		Astro-Brac (Pelco Products)	
2.16		Pedestrian Signal Heads		Model 7090 McCain #141SPO	
2.2		Audible Pedestrian Signal Heads		Novax DS2000	
2.26.2.2		Conflict Monitors		Eberie Model 210E	
2.26.4		Controller Cabinets - 332, 226 & 338		Safetran & Signal Control Company (SCC, Peak)	

32 17 23 Painted Pavement Markings

2.1	.5 Glass Beads	Swarco	Premium Glass Bead Type-I (T-20 coated)		
	.6 Pavement Markings	Ennis-Flint	Solvent based traffic marking paint		
			Yellow road marking paint prod # 986063		
			White road marking paint prod # 986061		
	.7S Thermoplastic	Ennis-Flint	Pave Mark (both yellow and white)		

32 01 17.6 Sealing Pavement Cracks for Maintenance Purposes

2.1		Cold Pour Crack Sealer	Cold Pour Crack Sealer	CRF Wilco	Good for over 5 minute cure rate only
		Hot Pour Crack Sealer	Hot Pour Crack Sealer	KOCH - 9211, Crafco & Tremco	

31 32 19 Geosynthetics

2.1		Stress Absorbing Membrane	Stress Absorbing Membrane	Amopave 4599 & Trevira S-112-C	
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Other

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