

**CITY OF VICTORIA
APPROVED PRODUCT LIST**

Revised: 2019-11-29

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, Royal Plastics	PVC DR18, PR235 AWWA C900	100mm to 300mm	
	IPEX, Royal Plastics	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 FlxFI Hub ends shall have lugs with holes suitable for restraint rods.
2.2.4.4 & PVC Injection & 2.2.4.5 Fabricated	IPEX Royal Plastics	C900 / C907 / C909	100mm to 450mm	Pressure class to meet or exceed mainline
2.2.4.12 Couplings and Flanged Coupling Adaptors	EBAA ROBAR ROBAR ROMAC	3800 1506 1508 501	100mm to 300mm 100mm to 300mm 100mm to 300mm 100mm to 300mm	
	<i>Wide Range Couplings:</i> ROMAC ROBAR Smith-Blair Smith-Blair Krausz Industries	XR501 1596 421 461 Hymax	100mm to 300mm 100mm to 300mm 100mm to 300mm 100mm to 300mm 38mm to 300mm	
	<i>Restrained Couplings:</i> EBAA Ford Meter Box Ford Meter Box Ford Meter Box Krausz Industries ROMAC Smith-Blair Smith-Blair Smith-Blair	3800 Uniflange RCDD Uniflange RCPP Uniflange RCDP Hymax Grip Romac Alpha 471 472 473	100mm to 300mm 75mm to 300mm 75mm to 300mm 75mm to 300mm 100mm to 300mm 100mm to 300mm 100mm to 300mm 100mm to 300mm 100mm to 300mm	NOTE: Hymax not approved for use with C909
2.2.4.13 Joint Restraint Devices	<i>Restraining MJ & PO Fittings to Ductile</i> EBAA EBAA EBAA Ford Meter Box Ford Meter Box ROMAC Sigma Smith-Blair	1100 15MJ00TD 15PF00TD Uniflange 1309 Uniflange 1400 PVC Romagrip SLD 111		
	<i>Restraining MJ & PO Fittings to PVC:</i> EBAA EBAA EBAA EBAA Ford Meter Box ROMAC ROMAC	15MJ00TD 15PF00TD 2000PV 19MJ00 19PF00 Uniflange 1309 PVC Romagrip 612		

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MMCD Sub-Section	Manufacturer	Make / Model	Size Range	Comments/Restrictions.
	Sigma Smith-Blair	SLD 120		
<i>Restraining Bell & Spigot Joints for Ductile & PVC:</i>	EBAA EBAA Ford Meter Box Ford Meter Box ROMAC Sigma Sigma Smith-Blair	1500 TD 1900 Uniflange 1390 Uniflange 1399 611 SLC SLDE 165	100mm to 300mm	PVC and DI PVCO and DI PVC and DI PVCO and DI PVC and DI PVC and PVCO DI only PVC and DI
<i>Restraining PVC Fittings to PVC:</i>	EBAA EBAA Smith-Blair	2500 2600 136		
<i>Restrained Flange Adaptors</i>	Ford Meter Box Ford Meter Box	Uniflange RFAD Uniflange RFAP	75mm to 300mm 75mm to 300mm	
2.2.4.14 Tapping Sleeves for branch connections (75mm & larger)	ROBAR ROMAC Smith-Blair	6606 SSTIII 622 664 665		Stainless steel Stainless steel Stainless steel Stainless steel Stainless steel
2.2.4.15 Repair Clamps	ROBAR ROBAR ROMAC ROMAC Smith-Blair Smith-Blair Cambridge	5616 5626 SS1 SS2 261 262 825		Stainless steel Stainless steel Stainless steel Stainless steel Stainless steel Stainless steel Stainless steel
2.3.1 Mainline Valves - General Requirements	Clayton Singer Watts			Control Valves Control Valves Control Valves
	Red & White Watts		50mm and under 50mm and under	Ball & Gate Valves Ball & Gate Valves
2.3.2 Mainline Gate Valves	American Flow Cont CLOW Mueller Terminal City	Series 2500 3200 Series PO x FL	100mm to 450mm 100mm to 450mm 100mm to 450mm 100mm to 450mm	Resilient wedge only Resilient wedge only Resilient wedge only Resilient wedge only
2.3.3 Mainline Butterfly Valve	Dezurik M & H Mueller Canada Pratt	Series 4500		
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 Hersey Watts	800 EDC III SS07F		
2.5 Service Connection Pipe	IPEX	Type K Copper PEX-a	19mm to 50mm 19mm to 25mm	
2.6 Hydrants	CLOW Mueller Terminal City / ACS	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

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OTHER

MMCD Sub-Section	Manufacturer	Make / Model	Size Range	Comments/Restrictions.
Service Saddles	Cambridge Canpac ROBAR ROMAC Smith-Blair	8403 304 2616 306 372	up to 200mm	Stainless steel; Epoxy lined Stainless steel; Epoxy lined Stainless steel; Epoxy lined Stainless steel; Epoxy lined Stainless steel; Epoxy lined
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 25mm 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
Meter Setters and Meter Resettters	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				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.

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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 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. 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	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

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.

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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, Royal Plastics	PVC DR18, PR235 AWWA C900	100mm to 300mm	
	IPEX, Royal Plastics	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.
2.2.5 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, MJxMJ, MJxFI or FIxFI 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 Royal Plastics	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.
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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 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. 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

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	Thermoplastics	Thermoplastics	Lafrentz Formula 0333 (White)	
			Lafrentz Formula 0359 (Yellow)	
	Road Marking Paint	Road Marking Paint	General Paint	

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, Crafcro & Tremco	

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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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