



City of Kelowna  
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# Council Policy

## Subdivision, Development & Servicing – Approved Products List

APPROVED July 29, 2002

RESOLUTION: R375/10/04/26  
REPLACING: R602/09/05/25; R59/99/01/25; R651/00/07/24; R650/02/07/29  
DATE OF LAST REVIEW: April 2010

This policy specifies the approved products to be used in the construction of Works and Services in the City of Kelowna. This list will be expanded and amended from time to time.

The list is to:

- (a) Standardize the products used between Water Improvement Districts and the City.
- (b) To limit the number of certain products that can be used within the City, to ensure that staff is trained to maintain those items, and to limit the inventory necessary for maintenance.
- (c) Make it easier for contractors and to minimize errors.

The City, subject to recommendation by the Director of Design & Construction, may approve products that satisfy the requirements of the City. For "Water" products, the Kelowna Joint Water Committee establishes the requirements. The respective Civic Operations Managers will review Water, Wastewater, Drainage, Electrical, Parks, and Road and Transportation Products. Requests for product inclusion may be made to the respective Director of Design & Construction.

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2. Catch Basin Rollover Frame and Grate

#### Misc. Metals

Landscape Products

## A. WATERWORKS DIVISION

Note: Products must conform to CSA Standard, where applicable.

### Legend:

- @ Subject to Engineers Design and Approval  
# Complete with Stainless Steel or high strength, low alloy steel bolts. All bolts to be denso paste and taped.

<u>Manufacturer</u>	<u>Make/Model</u>	<u>Size Range</u>	<u>Comments/Conditions</u>
<b>1. Pipe</b>			
<b><u>Water main</u></b>			
Ipex, Rehau, Royal	PVC C900	100 to 300mm	Only DR 18, class 150 or better as required for C900 & C905
	PVC C905	350 to 900mm	
Canada Pipe,	Ductile C151	250 to 750mm	Must be installed with Polyethylene encasement, and be cement mortar lined to AWWA C-104.
US Pipe	Ductile C151	750mm and up	

**A.WATERWORKS DIVISION CON'T**

<u>Manufacturer</u>	<u>Make/Model</u>	<u>Size Range</u>	<u>Comments/Conditions</u>
<b><u>Service Pipe</u></b>			
Noranda, Wolverine	Type k Copper	min. 20mm (3/4") max. 50mm (2")	Must conform to CSA HC.7.6 & ASTM B88
All Suppliers	Polyethylene	min. 25mm (1") max. 50mm (2")	Only Series 160 or 200 conforming to CAN/CSA-B137.1-M All PE: ID must be equivalent to copper tube flow capacity

**2. Fittings & Appurtenances****Fittings**

TC / ACS	Iron	100 – 600 mm	C-153 Fittings only
Norwood Foundry	Iron	100 – 600 mm	C-153 Fittings only
Sigma Corporation	Iron	100 – 600 mm	C-153 Fittings only
Ipex	PVC	100 – 200 mm	DR 18 Class 150, CSA B137.2 & B137.3, AWWA C907

**Restraining Joints**

Ford Meter Box Co. / Uni-Flange	1300C, 1350C & 1390C	100 – 600 mm	# @
Smith Blair	Model 982	100 – 600 mm	# @
Sigma	PV – LOC Series	100 – 600 mm	# @
EBAA Iron	Series 1500 PVC	100 – 600 mm	# @
Canada Pipe	Thrust Loc Series	100-600 MM	# @
Sigma	Zip Flange	100 - 600 mm	# @

<u>Manufacturer</u>	<u>Make/Model</u>	<u>Size Range</u>	<u>Comments/Conditions</u>
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**Service/Tapping Saddles**

Robar	2606DB	100 – 600 mm	Up to 25mm boss
	2706DS	100 – 600 mm	With stainless steel straps
Canada Pipe	SC-2	100 – 400 mm With stainless steel straps	Up to 25mm boss
Ford	FS303	100 – 300 mm	Up to 25mm boss
	202 BS	100 – 900 mm	With stainless steel straps
Cambridge Brass	812	100 – 900 mm	Up to 25mm boss  With stainless steel straps

## A. WATERWORKS DIVISION CON'T

### Couplings

**Note:** All couplings to be Fusion Bonded Epoxy Coated Ductile Iron.

Ford	FC1-ESH & FCA-ESH	100 – 600 mm	#
	FC2W Ultra Flex	100 – 300 mm	#
Robar	1506 & 1506R	100 – 600 mm	#
	1726 Multi-Fit	100 – 300 mm	#
Smith Blair	411, 413, 415, 441	100 – 600 mm	#
Canada Pipe	Style CDB	100 – 600 mm	#
Viking Johnson	Maxi-Fit & Maxi-Step	All sizes	#
T.P.S.	Hymax 2000	50 – 600 mm	#
Romac	XR 501 Extended Range	100 – 300 mm	#

<u>Manufacturer</u>	<u>Make/Model</u>	<u>Size Range</u>	<u>Comments/Conditions</u>
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### 3. Valves

#### Gate Valves

Clow	Clow Resilient	50 – 600 mm	
Mueller	Super-Seal	50 – 300 mm	
<i>Mueller</i>		AWWA C-515 A2361	350 – 1050 mm

#### Tapping Saddles

No fabricated Steele on PVC or AC	All sizes	#	Unless approved by Utility or Improvement District
Ok on D.I. or C.I.			

#### Butterfly Valves

Centerline	Series 200	350 mm +	
Pratt	Groundhog	350 mm +	
Mueller	Lineseal III	350 mm +	
Keystone	Type AR1 & AR2	350 mm +	

#### Air Valves

**Note:** Internal coating to be Factory, NSF approved Epoxy

Golden Anderson	945 E	25 – 100 mm	Internally Coated
Apco	143C, 145C, 147C	25 – 150 mm	Internally Coated
	149C & 150C		
Valmatic	201C, 202C, 203C & 204C	25 – 150 mm	Internally Coated
Crispin	All Models	25 – 150 mm	Internally Coated
Cla-Val	All Models	25 – 150 mm	Internally Coated

#### Service Boxes

Meuller	A-726	20 – 25 mm	c/w Stainless Steel Rods & SS-RHD or MD-RHD Clevis Ends
	A-728	37 – 50 mm	
Trojan	VSB1	20 – 25 mm	c/w Stainless Steel Rods & SS-RHD or MD-RHD Clevis Ends
	VSB2	37 – 50 mm	

## A. WATERWORKS DIVISION CON'T

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<u>Manufacturer</u>	<u>Make/Model</u>	<u>Size Range</u>	<u>Comments/Conditions</u>
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### Main Valve Boxes

TC / ACS		Minimum 375mm	Nelson Type
Norwood Foundry		Vertical Dimension	Nelson Type
Dobney Foundry	D-5		Nelson Type

## 4. Hydrants

### Hydrants

Terminal City	C-71-P		TCH1A only c/w Storz Fitting
Clow	Brigadier		c/w Storz Fitting
Canada Valve	Century		c/w Storz Fitting

## 5. Brass Service Fittings

### Corporation Stops

Mueller	B-25008	20 – 50 mm	Full port only
A.Y. McDonald	4701BQ	20 – 50 mm	Full port only
Ford	FB 1000	20 – 50 mm	Full port only
Cambridge Brass	Series 301	20 – 50 mm	Full port c/w new mueller gasket

### Curb Stops

**Note:** Stop & Drains NOT permitted.

Mueller	B-25209	20 – 50 mm	Full port only
A.Y. McDonald	6100XQ	20 – 50 mm	Full port only
Ford	B44 Series	20 – 50 mm	Only full port models 333, 444, 555, 666 & 777
Cambridge Brass	Series 202	20 – 50 mm	

### Service Line Couplers

Ford	C44 Series	20 – 50 mm	Models C44-1 to C44-88
Mueller	H-15403	20 – 50 mm	H15403, H15404 & H12940
Cambridge Brass	Series 118 & 119	20 – 50 mm	

## B. MANHOLES AND CATCH BASINES

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1. Adjustable Manhole Frame:
  - TC Ironworks Inc. C44A adjustable MH frame and SR-Support Ring
2. Catch Basin Rollover Frame and Grate:
  - Westview Sales Ltd. RB7 frame and grate

## C.MISCELLANEOUS METALS DIVISION

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### Landscape Products

Dobney Foundry Surrey, BC (604) 596-7407	Tree Grates SP48 Model Grate Colour: Black
Dobney Foundry Surrey, BC (604) 596-7407	Tree Guards Type 'B' Colour: Black
Dobney Foundry Surrey, BC (604) 596-7407	Bollards Style 'B' Colour: Black
Frances Andrews Surrey, BC (800) 656-6579	Bench Model #G24-311M Colour: RAL 5011
Frances Andrews Surrey, BC (800) 656-6579	Garbage Receptacle Model # R-31-1 Colour: RAL 5011

### REASON FOR POLICY

To standardize products used for City infrastructure.

### LEGISLATIVE AUTHORITY

Local Government Act, Sec. 938 "subdivision servicing requirements"; Subdivision, Development & Servicing Bylaw, Schedule 5, Sec. SO2666, 2.1.2; MMCD Volume III

### PROCEDURE FOR IMPLEMENTATION

Policy and products referred to in contracts and engineering drawings.