

CITY OF SARASOTA, FLORIDA

APPENDIX A-2

WASTEWATER
APPROVED MATERIAL LIST

PLEASE TYPE OR PRINT CLEARLY IN BLACK INK

Project Name: _____

Contract / Bid Number: _____ Work Assignment Number: _____

Contractor's Name: _____

Contractor's Address: _____

Contractor's Signature: _____

For City Use Only

(Refer to Section 01300 – Submittals)

Engineer: _____ Date: _____

Reviewed, No Comments: _____

Reviewed, Comments as Noted: _____

Reviewed, Comments Attached – Resubmit: _____

Rejected, Revise and Re-submit, Comments Attached: _____

Not Reviewed: _____

City Project Manager: _____ Date: _____

Comments:

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With the submission of this document, the CONTRACTOR understands that the use of the following selected items, as individually indicated using an "X", is mandatory. The products included in this list are approved for wastewater service only.

Recommendations for Approved Alternates, using other items that are not contained within this Checklist, shall be initiated, and submitted by the CONTRACTOR, in accordance with Section 00800-General Provisions, to the CITY and the ENGINEER for review and approval at least ten (10) calendar days in advance of need.

It is also understood by the CONTRACTOR that the CITY and the ENGINEER shall reject materials and products not in accordance with this Specifications and this Checklist.

Shop drawings shall be required for all structures and similar items not contained on this checklist, such as manholes, wet wells, and other castings.

Four (4) sets of the CONTRACTOR's and the ENGINEER's executed APPROVED MATERIALS CHECKLIST and any necessary shop drawings shall be submitted to the CITY and the ENGINEER for its use and approval, plus the number of sets needed for the CONTRACTOR's use.

Ordering material and products without specific written approval from the CITY of the submitted list and shop drawings is NOT recommended and is done at the CONTRACTOR's sole expense and responsibility.

NOTE: The latest changes approved by the CITY are indicated by "underlining" and deleted items by "~~strikethroughs~~".

American Iron and Steel, Buy American Act, or any procurement requirements identified in the contract documents shall take precedence over the materials listed in this checklist.

CONTENTS**Section 1: Valves and Accessories****Section 2: Pipe Material and Accessories****Section 3: Pipe Fittings****Section 4: Wetwells, Manholes, and Accessories****Section 5: Metalwork****Section 6: Finishes****Section 7: Equipment**

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SECTION 1: VALVES AND ACCESSORIES

Automatic Combination Air / Vacuum Release Valve:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
H-Tec	Model 986, 989, 990	Short Body for 989
Golden Anderson	929	
ARI	D-025 (short version)	

Gate Valves 14-Inch Through 48-Inch (C-515, Resilient Seated, with Side Actuators, if Required):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Mueller	A-2361	Epoxy Coated
McWayne/Clow	F-6100	Epoxy Coated
American	Series 2500	Epoxy Coated

Gate Valves 3-Inch Through 12-Inch (C515, Resilient Seated Only):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Mueller	A-2361	Epoxy Coated
McWayne/Clow	F-6100	Epoxy Coated
American	Series 2500	Epoxy Coated

Check Valves:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Kennedy		
Mueller		
VSI		

Plug Valves (Full / 100% Port):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
DeZurik		
VSI		
Val-Matic	Eccentric Plug Valve	

Insertion-Valves:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
TEAM	Insert-Valve 4" – 12"	
Hydra-Stop	IV-250 / IVP-250	

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<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Water Plus Corp.	107-G	With Pin Allen Type Lock

Air / Vacuum Release Valve Service Saddles (All Stainless Wrap-Around Band, 2" NPT Outlet):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Total Piping Solutions	T3 Series	
Ford	FS 313, 323, and 333	with Bellville washers for HDPE

Air / Vacuum Release Ball Valve (Stainless Steel, Full Bore, FIP x FIP):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Apollo	76F-100-A Series	

Valve Box with Lids (5 ¼ - Inch, ASTM A48 30B Heavy Duty Cast or Ductile Iron, with "SEWER"
Cast into the Lid Top):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tyler	461-S, 462-S, 6850, 6860	Must be Cast in USA
Bingham/Taylor	15B20, 15B18	

Valve Box Stabilizer (Green):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Bingham & Taylor	ADP90001GRN	

Valve Box Debris Cap:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Bingham & Taylor	ODSDEISP12B	

Curb Stop and Check Valve Assembly / Lateral Kit:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
E-One		

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SECTION 2: PIPE MATERIALS AND ACCESSORIES

FRPM (Fiberglass Reinforced Polymer Mortar) Pipe:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
HOBAS Pipe USA, Inc.	Filament Wound Pipe	

PVC (Light Green) 4-Inch and Larger Pipe (AWWA C-900, DR18):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Bristolpipe		

PVC (Light Green) 4-Inch and Larger Pipe (AWWA C-900, DR18) (Continued):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
J-M Manufacturing		
IPEX		
Diamond Plastics		
Freedom Plastics		
National Pipe		
NAPCO (North American Pipe Company)		
Underground Solutions	Fusible PVC	Requires COSUD Approval

PVC Gravity Pipe – Mains and Services (SDR 26, Light Green in Color):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Certainteed		
Can-Tex		
J-M Manufacturing		
Diamond Plastics		
Freedom Plastics		
Bristolpipe		
National Pipe		
Vassallo		
NAPCO (North American Pipe Company)		

Ductile Iron Pipe (4-Inch to 12-Inch = PC 350, 16-Inch to 20-Inch = PC 250, 24-Inch to 64-Inch = PC 200) (DI Flanges as Applicable, AWWA C115) (P401 Coating System):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
American		
Clow		

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Griffin
McWane
US Pipe

HDPE Pipe (DR11, Green Striped):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Driscopipe	Series 1000	
Chevron	Plexco	

Painting Finish (Exterior):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Koppers	No. 505	
Carboline	Bitumastic 300M	

Force Main Locating Wire (Single Strand 12-Gauge Solid Copper Wire with Green Colored Insulated Covering):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Copperhead CCS (Reinforced Tracer Wire)	1230 HS	Open Cut Installation
Copperhead CCS (Reinforced Tracer Wire)	1245 EHS	HDD Installation

Force Main Identification Tape (Light Green, 6-Inches Wide, 2-Inches High Black Lettering, Non-Adhesive Backed):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Pro-Line		

Buried Force Main Warning Tape (Light Green, 3-Inches Wide, 1-Inch-High Black Lettering, Non-Adhesive Backed):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Zurn / Wilkins	375, 375XL, 975XL	

Poly Pig:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Knapp Poly Pig		
Girard Poly Pig		

Wastewater Service Saddle (Ductile Iron Saddle Body, Stainless Steel Strap):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Romac	"CB" Sewer Saddle	For use with lined VC Pipe

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<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Multi		
Harco		
Royal Plastic Trends		

Pipe Adapters:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Fernco	Flex Coupling	
Fernco	The Hulk	
Indiana Steel		
Maxadapter		

SECTION 3: PIPE FITTINGS

Fittings (All Sizes), Compact, Ductile Iron AWWA 153):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
American		Romac Alpha or MJ Ends
Tyler / Union		
US Pipe		
Sigma		
Starr		
SIP Industries		

Flange Adapters:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Rockwell International	Type 913	
Baker	Type 602	
Dresser International	Type 128	
Smith Blair	Series 900	
EBAA	MEGA Flange	Restraining
Romac	Alpha FC, RFCA	Restraining

Casing Spacers (All Sizes) Stainless Steel with Vinyl Runners Centering:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Cascade	Series CCS / CCPS / AZ	
RACI	Series S/T, F/G, P/Q, M/N, E/H	

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BWM SS

Interior Coatings – Ductile Iron Pipe:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Induron	Protecto 401	
Permox CTF	Permox CTF	

Restrained Joints – Ductile Iron Pipe:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
American Cast Iron Pipe	Flex Ring or Lok-Ring	
US Pipe	TYTON® or HDSS	

Mechanical Restraining Joints – Ductile Iron Pipe:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
EBAA Iron Inc.	Mega-Lug Series 1100	
	Series 1700 Bell Restrainer	
	Series RS-3800 Restrainer – sleeve included	
Sigma	One LOK SLD, PV LOK	
Star Pipe Products	Stargrip Series 3000, 300S & 3000OS	
	Stargrip Series 3100S & 3100P	
	Flange Adapter Series 200 & 400	
	Retainer Glad Series 600	
Tyler / Union	Tufgrip Series 1000	
US Pipe	EZ Grip	

Mechanical Restraining Joints – PVC Pipe:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
EBAA Iron Inc.	Megalug Series 2000PV	
	Series 1500 and 1600	
	Bell Restrainer	(4-Inch to 12- Inch)
	Series RS-3800 Restrainer	Sleeve Included
JCM	620 and 621 Sur-Grip Bell Joint	
	1350, 1360, 1390 Bell Restrainer	
	900 Adapter Flange	
	1300 Fitting Restrainer	
	1500 Series	
Sigma	One LOK SLC and PV LOK Series	

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Star Pipe Products	PVP and PVPF PVC Stargrip Series 4000 and 4000P, PVC Harness Series 1000, 1100 & 1200, Adapter Flange Series 200, 400, & 4200	
Tyler / Union SIP	Tuf Grip TLP Series EZ Grip	for PVC Pipe Use
Ransom International	Rieberlock	

Tapping Sleeves – Smaller than 24-Inch:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
JCM	Model 432	
Mueller	H-304 SS	

Tapping Sleeves – Smaller than 24-Inch (Continued):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Romac	SST	

Size on Size Tapping Sleeves:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Mueller	H-615, 616, 619	
American Flow Control	Series 2800	

Tapping Sleeves (Mechanical Joint):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
JCM	Series 414	
Romac	SST-MJ	

Pipe Repair / Transition Couplings:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Hymax		3", 14" or Larger AC-PVC/DI
Romac	Alpha	4" through 12" PVC/DI/HDPE
Romac	Macro	4" through 12" AC-PVC/DI

Anti-Seize Lubricants:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Loctite	Never Seize	
Bostik		

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<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
JCM	440	4" – 8" stainless steel flange DIP completion plug, carbon steel blind flange (epoxy coated), 10" – 20" all stainless-steel body and hardware, stainless or carbon steel flange, DIP completion plug, carbon steel blind flange (epoxy coated), 24" and larger all stainless-steel body and hardware, stainless or carbon steel flange, DIP completion plug, carbon steel blind flange (epoxy coated)

Line Stop Fittings (Stainless Steel Body, Flange and Hardware, check insertion plug type with line stopping service) (Continued):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Hydra-Stop	HSF 250	
Total Piping Solutions	Triple Tap	

Pipe Repair Clamps:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
JCM		
Smith Blair		
Total Piping Solutions	Quick Cam	

SECTION 4: WETWELLS, MANHOLES, AND ACCESSORIES

Concrete Joint Seal:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
K.T. Snyder Co.	Rub-R-Neck	

Plastic Joint Sealer:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
K.T. Snyder Co.	Ram Neck	
Atlantic Concrete Product		

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<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
A-Lok	Butyl-Lok	

Calcium Aluminate Coatings:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Kerneos Aluminates Strong	SewperCoat Strong Seal HP	

Polyurethane Coatings:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
SprayRoq	SprayWall	

Manhole Boot:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Trelleborg Link Seal	Kor-n-Seal S-316	

Polymer Concrete Manhole:Manufacturer:

USCP

Manhole Frame & Cover:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
US Foundry	USF 170-E	ORS Gasketed
GMI Corporate CAP	Model 2600 F/C	Gasketed Composite

Cleanout Handhole ("S" or "Sewer" Cast in Lid):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
US Foundry	USF 7621	

SECTION 5: METALWORK

Hatches (Gutter Type, Pad Lockable, Structural Aluminum, Diamond Pattern Surface):

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<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Bilco		H-20 Loading
Halliday Products, Inc.		H-20 Loading
Babcock-Davis		H-20 Loading
USF Fabrication		

Hatch Nets:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Safe Approach	Hatch Net 121	

Anti-Seize Lubricants:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Anti-Seize Technology	Pure White	

Anti-Seize Lubricants (Continued):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Dixon Ticonderoga	AS-470	
Loctite	Never-Seize	

Glass Capsule Polyester Resin Adhesive Anchors:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Hilti HVA		
Cobra Anchors		

Expanding-Type Anchors:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Trubolt Anchors	ITW Ramset/Redhead	
McCullock Industries	Kwick-Bolt	

Impact Anchors:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Hilti, Inc.	Metal Hit Anchors	
Rawplug Company	Rawl Zamac Nailin	

Coatings:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Sherwin-Williams	Zinc-Clad XL	
Alvin Products	Galvax	

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ZRC Worldwide

Galvite

SECTION 6: FINISHES

Paints:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec		
Carboline		
Ameron		
International Coating, Inc.		

Epoxy Polyamide Fillers:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	54-660	
Topcoat	Epoxy Block Filler	
Ameron Nu-Klad	105	
Keeler & Long	Kolor No. 3400	

Epoxy Polyamide:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	66-Color H.B. Epoxoline	
Carboline	890	
Ameron	Amercoat	
Keeler & Long	Kolor-Poxy Primer No. 3200	

Bond Coat:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Kop-Coat	Bitumastic No. 300-M	
Keeler & Long	CT 400	

Coal Tar Epoxy:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Kop-Coat	Bitumastic No. 300-M	
Keeler & Long	CT 400	

Conditioner:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
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Kop-Coat	Bitumastic 2CB
Keeler & Long	CT 300

Acrylic Coating:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	Series 130-6602 Envirofill	
Carboline	Flexxide	
Keeler & Long	6440	

Acrylic Emulsion:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	Series 180 WB Tneme-crete	
Carboline	D3359	
Keeler & Long	Aqua-Kolor Enamel W-2 Series	

Ferrous Metal Epoxy Polyamide Primer:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	66-1211 Epoxy Primer	
Carboline	893 Primer	
Ameron	Amercoat 71	
Keeler & Long	Kolor-Poxy Primer No. 3200	

Ferrous Metal Epoxy Polyamide:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	66-Color H.B. Epoxoline	
Kop-Coat	Hi-Gard Epoxy	
Carboline	890 Epoxy	
Keeler & Long	Kolor-Poxy Primer	

Aliphatic Polyurethane:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	72-Color Endura	
Carboline	134	
Ameron	Amercoat	

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Keeler & Long Acythane Enamel

Aliphatic Polyurethane (When Using Roller):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	70	
Carboline	134 (for roller)	
Ameron	Amershield	
Keeler & Long	Acrythane Enamel Y-1 Series	

Epoxy Polyamide:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	140-1211 Porta-Pox Plus	
Kop-Coat	340 Gold Primer	
Carboline	187 Primer	
Ameron	Amercoat 71	
Keeler & Long	Kolor-Poxy Primer No. 3200	

Epoxy Amine-Cure:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	04	
Carboline	187 Finish	Use 187 primer when not using shop primer

Galvanized Steel Coating Wash Primer and/or Epoxy Polyamide:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	66-Color H.B. Epoxoline	
Carboline	Rustbnd Primer/Sealer	
Ameron	Amchem Galvaprep	on Galvanized Steel
	Amchem Aiodine 1200 plus	on Aluminum
	Ameron Amerlock 400	
Keeler & Long	Vinyl Brutyal Wash Primer	No. 7840
	Kolor-Poxy Primer	No. 3200

Aliphatic Polyurethane:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
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Tnemec	72 Color Endura Shield 11	Gloss
Kop-Coat		
Carboline	Carbothane 134 H.S.	
Ameron	Amercoat 450 GL	
Keeler & Long	Acrythane Enamel Y-1 Series	

Aliphatic Polyurethane Gloss (When Using Roller):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	70 Color Endura Shield	
Kop-Coat		
Carboline		

Aliphatic Polyurethane Gloss (When Using Roller) (Continued):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Ameron	Amershield	
Keeler & Long	Acrythane Enamel Y-1 Series	

Alternate Coating Systems:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Carboline	Galvonox Type 1	
Keeler & Long	No. 6820	

Zinc Chromate Primer:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Carboline	1037WP	
Keeler & Long	Vinyl-Brutyral Wash Primer	No. 7840

Aluminum Pigmented Epoxy Paint:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Carboline	Carbomastic 90	
Keeler & Long	Kolormastic No. 1000	

Coal Tar Epoxy (High Build):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
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Tnemec	46H-413
Kop-coat	Bitumastic No. 300-M
Ameron	Amercoat 78HB
Keeler & Long	CT 400

Quality Control:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tinker & Rasor		
K-D Bird Dog Holiday Detector		

SECTION 7: EQUIPMENT

Submersible Pumps (Less than 30 HP):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Hydromatic		
Flygt		
Myers		
Barnes Pumps		
Goulds Pumps		

Submersible Pumps (30 HP and Greater):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Fairbanks		
Flygt Pumps		

Peristaltic Metering Pumps:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Flowrox	FXMS	

Diaphragm Metering Pumps:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Grundfos		

Stop Gates and Slide Gates:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Alpha Laval, Inc.	CoPlastic Gate	

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Tools:

Manufacturer
Snap On
Crescent
Stanley

Part Number

Comments