

BCWS Approved Parts for Water Systems

Updated April 2023

Water Service			
Saddle - C900 PVC - 2" Diameter	Manufacturer	Model Number	Notes
	Ford Meter Box, Inc.	S90-203	
Saddle - Standard PVC - 2" Diameter	Manufacturer	Model Number	Notes
	Ford Meter Box, Inc.	S70-204	
Saddle - all pipe - 4" to 12" Diameter	Manufacturer	Model Number	Notes
	Cascade	CS22	Stainless Steel
	PowerSeal	3414AS	
	Ford Meter Box, Inc.	FS323	S.S. Two-Section
	Romac Industries	305	
Corporation Stop - 1"	Manufacturer	Model Number	Notes
	Ford Meter Box, Inc.	FB1000-4-G	Grip Joint
	Mueller	P-25008	Pack Joint
	Mueller	B-25008	Compression Connection
	A.Y. McDonald	74701BG	Grip Joint
Corporation Stop - 2"	Manufacturer	Model Number	Notes
	Ford Meter Box, Inc.	FB1000-7-G	Grip Joint
	A.Y. McDonald	74704BG	Grip Joint
Curb Stop - 1"	Manufacturer	Model Number	Notes
	Ford Meter Box, Inc.	B44-444-G	Grip Joint x Grip Joint
	Mueller	B-25209	Compression Connection
	A.Y. McDonald	76100WG	Grip Joint x Grip Joint
	Philmac	76-10104	Compression Connection
Tee/Wye	Manufacturer	Model Number	Notes
	Ford Meter Box, Inc.	T444-444-G	Grip Joints
	Ford Meter Box, Inc.	Y44-243	Pack Joint Y
	A.Y. McDonald	74760G	Grip Joints
Stiffeners - 1"	Manufacturer	Model Number	Notes
	Mueller	110	
	Ford Meter Box, Inc.	INSERT-52	
	A.Y. McDonald	6133T	
Stiffeners - 2"	Manufacturer	Model Number	Notes
	Ford Meter Box, Inc.	INSERT-55	
	A.Y. McDonald	6133T	

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	Manufacturer	Model Number	Notes
5/8" Service Meter Box	Ford Meter Box, Inc.	LYLV141-243-G-NL style	Long Yokebox, lockable with recessed 2" hole for electronic meter reading module. Must have BCWS logo stamped lid.
	Manufacturer	Model Number	Notes
1" Service Meter Box	Ford Meter Box, Inc.	LYLVP 141-243-T-G	Lockable
	Manufacturer	Model Number	Notes
> 2" Service Meter Box	Sigma Corp.	MBX 5A	
	Sigma Corp.	MBX-1	
	Carson Industries, Inc	1220-12	

Valve			
	Manufacturer	Model Number	Notes
Gate Valve - up to 14" - MJ x MJ - AWWA C509	Mueller	A-2361	2"-14"
	US Pipe	A-USPO-23	2"-12"
	American Flow Control	2500 series	2"-12"
	Manufacturer	Model Number	Notes
Butterfly Valve - over 14" - MJ x MJ	Crispin	K-FLO 500 Series	16" - 20", MJ
	DeZURIK		16" or larger
	Mueller Lineseal XP	Class 250	16" - 48", MJ
	Manufacturer	Model Number	Notes
Air Release	GA Industries INC		Small Orifice
	ARI		
	Vent Tech	SXG-Series C	To be used on AIS Compliant projects
	H-Tec	Model 990	To be used on AIS Compliant projects

	Manufacturer	Model Number	Notes
ARV Pedestal	Water Plus Corp.		
	Pipeline Products	Advantage Series	Blue Top 36" Tall
	Channell	SPH1420	Gray with anti-insect vents

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Valve Box			
Adjustable Valve Box (Domestic Products Only)	Manufacturer	Model Number	Notes
	Tyler/Union	6850 series	
	Tyler/Union	7000 series	
	Tyler/Union	7100 series	
	EJIW USA	8550 1922	Metal top & bottom sections to be used with cap to go in valve boxes.
	Bingham & Taylor	Bison Box	
Valve Box Cover			
Valve Box Alignment	Manufacturer	Model Number	Notes
	EJIW USA	6800	Non-locking Lid
Valve Box Alignment	Manufacturer	Model Number	Notes
	Adaptor	Valve Box Adaptor II	For installation on all GVs and sewer PVs
	Adaptor	Butterfly Valve Adaptor	For installation on all BVs
	BoxLok		BoxLok size will depend on installation method. Normal installation will be with cast iron valve box (BoxLok 7.5" O.D.). If 6" PVC pipe is used for a riser Boxlok OD will be less (BoxLok 5.5" O.D.)
Hydrant			
Fire Hydrant - 3 way	Manufacturer	Model Number	Notes
	Mueller Centurion	A-421	
	US Pipe	Sentinel 250	
	American-Darling	Mark 73-5	
Post Hydrant/Yard Hydrant	Manufacturer	Model Number	Notes
	Merrill	C7502	Freeze proof
	Kupferle Foundry Co.	Eclipse No. 2	Freeze proof
	Woodford	IOWA Y34 & Y1	Freeze proof
	Mueller Post Hydrant	A-411	2-1/8" main valve opens one way

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Above grade Backflow Assembly				
Freeze Protection	Manufacturer	Model Number	Notes	
		Hot Box	Pez Drop Over	
		Safe-T-Cover	Series 100/200	

Restrained Joint				
PVC	Manufacturer	Model Number	Notes	
		EBAA Iron INC	Series 2000 PV	Mechanical Joint
		EBAA Iron INC	Series 2800	Bell Restraint Harness for C905
		EBAA Iron INC	Series 2500	Restraint for C900 and C905
		EBAA Iron INC	Series 1600	Bell Restraint Harness for C900
		EBAA Iron INC	Series 15PF00	PVC to DIP fitting
		STAR Pipe Products	Stargrip 4000	MJ for C900 and C905
		STAR Pipe Products	1100C	Bell Restraint for C900/C905
		Ford Meter Box, Inc.	UFR1390-C-x	Uni-Flange Series
		Ford Meter Box, Inc.	UFR1500-C-x	Uni-Flange Series
		Tyler Union	TUF Grip	Mechanical Joint; Up to 12"
		Tyler Union	Series 3000	Bell Joint Restraint
		Sigma	PV-LOK Series PWP	Bell Joint Restraint
		Sigma	ONE-LOK SLCE & D-SLCE	Mechanical Joint
		RieberLok	Internal joint restraint gasket	For PVC 4"-24". Restrained Joint identification tape required where used.

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DIP	Manufacturer	Model Number	Notes
	EBA Iron MEGLUG	Series 1100	Mechanical Joint
	U.S. Pipe	FIELD LOK Gasket	
	American Ductile Iron Pipe Company	Fast-Grip Gasket	
	McWane DIP	Sure Stop 350 and TR Flex	
	STAR Pipe Products	Stargrip 3000	Mechanical Joint
	STAR Pipe Products	1000C & 1100C	Restrainers work with MJ or push-on fittings, Up to 14"
	Sigma	PV-LOK Series PWP	Bell Joint Restraint
	Sigma	ONE-LOK SLDE & D-SLDE	Mechanical Joint
	Tyler Union	TUF Grip	Up to 24"; Up to 12" on FM
Ford Meter Box, Inc.	UFR1400-D-x	Uni-Flange Series	

Tapping Sleeve & Valve			
Tapping Sleeve - MJ	Manufacturer	Model Number	Notes
	JCM	432 All Stainless Steel	Use only when branch is smaller than pipe
	Ford Meter Box, Inc.	FTSS Tapping Sleeve with Removable Bolts	Use only when branch is smaller than pipe
	Romac Industries	SST-H	For use on HDPE only
Tapping Valve	Manufacturer	Model Number	Notes
	Mueller / USP	TUSP1-19 opt. E347 / T2361-19 opt. E347	Must have test port on bonnet and test plug must be 316 SS
	American Flow Control	2500 series	

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Pipe & Pipe Fitting				
PVC - Blue for water for sewer	Green	Manufacturer	Model Number	
		North American		
		Diamond		
		National		
		JM Eagle	Eagle Loc 900	Internal joint restraint system
		Vulcan Plastics		
DIP-Cementous Lined for Water Epoxy Lined for Sewer		Manufacturer	Model Number	
		AMERICAN DIP		
		McWane DIP		
		U.S. Pipe		
		Griffin Pipe Products		
Fittings - DIP - Class 350 Cementous Lined for Water Epoxy Lined for Sewer		Manufacturer	Model Number	
		Sigma		MJ fittings
		STAR Pipe Products		MJ fittings
		Tyler/Union		
		Custom Fab		
Polyethylene Encasement		Manufacturer	Model Number	
		Infinity plastics, LLC		Must be blue in color
		Trumbull Industries, Inc.		Must be blue in color
		VB3		
Transition Gaskets		Manufacturer	Model Number	
			Notes	
Tracer Wire		Manufacturer	Model Number	
		Kris-Tech Wire Co, Inc.		Must be blue in color; must be solid and for direct burial
		Paige spec	Paige spec	Paige spec

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Manhole			
Sealant	Manufacturer	Model Number	Notes
	ConSeal	CS-102	
	Press-Seal	Pro-Stik	
	Henry Company	RAM-NEK	
Wrap / Exterior Sealant for Manholes	Manufacturer	Model Number	Notes
	ConSeal	CS-212	
	Henry Company	RUBR-NEK	
Frame and Cover - Standard	Manufacturer	Model Number	Notes
	Varies	Composite	To be installed on all epoxy coated MHs
	EJIW	V1384 41384177	
	US Foundry	No. 668KL	
Frame and Cover - Heavy Traffic & Watertight	Manufacturer	Model Number	Notes
	US Foundry	No. 579-DC-SSG-LOC	Cam Locks
Frame and Cover - Swivel	Manufacturer	Model Number	Notes
Frame and Cover - Hinged	Manufacturer	Model Number	Notes
	EJIW	24" Ergo	NCR09-834B
	EJIW	30" Dual Hinge	NCR09-835B
	US Foundry	USF 926 RING & US COVER	
	US Foundry	USF 924 RING & US COVER	
Frame and Cover - Standard Watertight	Manufacturer	Model Number	Notes
	EJIW	V1384 NCR09-2301A	Cam Locks
	US Foundry	USF 753	Cam Locks
	US Foundry	No. 195 Ring & E-ORS Cover	
Riser Rings	Manufacturer	Model Number	Notes
	Cretext		
	Sealing Systems Inc.	Rubber Riser Rings	Paved areas only where tapering is required.
Boot Connector	Manufacturer	Model Number	Notes
	KOR-N-SEAL	106-406	
	Press-Seal	PSX Direct Drive	
	Hamilton Kent	Tylox	MIB Series

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Pipe Fittings			
Transition Gaskets	Manufacturer	Model	Notes
	HARCO	DI Transition Adapters PF149-121609	Where transitioning from DIOD to SDR 35/26
Coupling/Sleeve/Bends	Manufacturer	Model Number	Notes
	Varies	Line Coupling w/ stop (SDR 26)	Molded Fittings Only
	Multi Fittings	C-900 Repair coupling (SDR 18)	Molded Fittings Only
	Multi Fittings	C-900 line coupling (SDR 18)	Molded Fittings Only
	Varies	DI MJ solid sleeve	To be used with appropriate transition gaskets. Must be P401 Lined or approved equal internal coating
	Harrington Corp (HARCO)	(C-900 x Sewer OD) BXB Adapter. (PVC)-SDR 18	Molded Fittings Only
	Harrington Corp (HARCO)	DI Transition Adapters (DI or C-900 x SDR35/26)	P-401 lined
	Harrington Corp (HARCO)	SDR18 Heavy Wall gasketed Sewer Fittings	Molded fittings rated for use on SDR26 Pipe 3'-15' depth range
	MULTI FITTINGS	CIOD-Sewer Adapter	Molded fittings for use on PVC pipes only
	Harrington Corp (HARCO)	(DIOD x Sewer OD) GxG Adapter. (DI)	6" - 12" pipe sizes (DI)
	Harrington Corp (HARCO)	C-900 Repair coupling (SDR 18)	Molded Fittings Only
	Harrington Corp (HARCO)	C-900 line coupling (SDR 18)	Molded Fittings Only
	Varies	DI MJ bends	To be used with appropriate transition gaskets. Depths Greater than 15 feet.
	Varies	SDR - 26 Gasketed Bends	3' - 15' Depth Range. Molded Fittings Only.
	Harrington Corp (HARCO)	DI Gasketed Bends	Depths Greater than 15 feet.

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Service Connections at Main	Manufacturer	Model	Notes
	Varies	DI MJ Tee. DI MJ Wye	Where Required by Depth
	Harrington Corp	DI Sewer Wye DI Sewer Tee Wye DI Sewer Tee	Where Required by Depth
	Varies	SDR - 26 Tee Wye	3' - 15' Depth Range. Molded Fittings Only.
	Multi Fittings	Blue Brute AWWA C907 Molded Tee	15' + depth range on 10" and larger gravity main
	Romac	CB Sewer Saddle	For connections to clay lines/BCWS personnel must be present when installing
Wye Connections at Property Line	Manufacturer	Model Number	Notes
	Varies	SDR - 26: Gasketed 6X6 double and single wyes. SDR - 26: Gasketed 6x4 double and single wyes.	Molded Fittings Only
	Varies	DI MJ: Gasketed 6X6 double and single wyes. DI MJ: Gasketed 6x4 double and single wyes.	Where Required by Depth
PVC Fittings on Force Main	Manufacturer	Model	Notes
	HARCO	PVC fittings for C900 pipe. Size 4" - 8".	Use with EBAA Series 2500, Restraint for PVC Fittings
Inside Drop MHs	Manufacturer	Model	Notes
	Bowl/Funnel	Reliner Duran	Option for inside drop MHs.

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	Manufacturer	Model Number	Notes
Tracer Wire	Kris-Tech Wire Co, Inc.		Must be green in color; must be solid and for direct burial

	Manufacturer	Model Number	Notes
Air Release Valve	ARI	D-025	
	ARI	D-26	Based on flow rates and manufacturer's recommendations (Pump Station ARV Primarily)
	Vent-Tech	SXG-Series C	To be used on AIS Compliant projects
	H-Tec	Model 990	To be used on AIS Compliant projects
	H-Tec		

	Manufacturer	Model Number	Notes
Plug Valve	DeZURICK		100% Port Eccentric
	Milliken		100% Port Eccentric
Lining/Paint	Manufacturer	Model Number	Notes
	Sherwin Williams	Macropoxy	DIP above grade/See appendix G 02733
	Sherwin Williams	Duraplate 6100	Wet well, receiving MH, Doghouse MH, ARV MH
	RAVEN	RAVEN 405	Wet well, receiving MH, Doghouse MH, ARV MH
	Tnemec	Hi-Build Epoxoline	DIP above grade/See Appendix G 02733
	Tnemec	Series 431 Perma-Shield	DIP internal coating
	Protecto 401	Protecto 401	DIP internal coating
	D&M Coatings	Permax CTF	DIP internal coating (Green)

	Manufacturer	Model Number	Notes
Cleanout Frame and Cover	Neenah Foundry Co.	R-7514	

	Manufacturer	Model Number	Notes
Polyethylene Encasement	Infinity Plastics		Green
	Trumbull		Green
	VB3		

For pipes and joint restraints, please see the approved parts list for water.

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Pump Station			
Pumps	Manufacturer	Model Number	Notes
	Flygt		
	ABS		
Pump Control	Manufacturer	Model Number	Notes
	MultiTrode	MSU3MP	
Level Probe Replaced with RADAR Level Sensor	Manufacturer	Model Number	Notes
	Vega	C21	
Gauge/Diaphragm	Manufacturer	Model Number	Notes
	Ashcroft	No.50-101SS-04T-CG	Or Equivalent/Gauge must read in psi and ft/head
VFD Stations (Level Sensing Unit)	Manufacturer	Model Number	Notes
	Flygt	LSU100	
	Pulsar	DBI	
Intrinsically Safe Barrier - No longer used when level probes replaced with RADAR sensor	Manufacturer	Model Number	Notes
I/O Extension Module	Manufacturer	Model Number	Notes
	Adams	6051	
Flow Meter	Manufacturer	Model Number	Notes
	Toshiba	600 Series	
	Toshiba	LF654	Meters 1/2"-18"
	Toshiba	LF664	Meters 20"-24"
	Toshiba	LF664	Meters 28"-78"
Control Switches	Manufacturer	Model Number	Notes
	ABB		
	Siemens		
	Eaton/Cutler Hammer		
	Square D		

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Magnetic Control Relays	Manufacturer	Model Number	Notes
	ABB		
	Siemens		
	Eaton/Cutler Hammer		
	Square D		
Solid State Control Relays	Manufacturer	Model Number	Notes
	ABB		
	Siemens		
	Eaton/Cutler Hammer		
	Square D		
Time Delay Relays	Manufacturer	Model Number	Notes
	Diversified Electronics		
	Artisan		
	Siemens		
	Eaton/Cutler Hammer		
Motor Starters-RVSS/VFD	Manufacturer	Model Number	Notes
	Square D		Design basis is Altistart 48, Y-range, Soft-Start Controller. For Under 20Hp Altistart 22 are acceptable. VFD will be 630 series
	Yaskawa	GA500	
	Yaskawa	GA800	
	Siemens	3RW RVSS	
	Siemens	G120C VFD	
	ABB	PSE	
	ABB	ACS310 VFD	

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Control Power Transformer	Manufacturer	Model Number	Notes
	ABB		
	Siemens		
	Eaton/Cutler Hammer		
	Square D		
G.E.			
Control Power Enclosures	Manufacturer	Model Number	Notes
	Saginaw		
	B-Line		
	Hoffman		Design basis Enclosure and Air Conditioning unit
EMF			
Terminal Blocks	Manufacturer	Model Number	Notes
	ABB		
	Cooper		
	Eaton/Cutler Hammer		
	Square D		
G.E.			
Plastic Raceway	Manufacturer	Model Number	Notes
	ABB		
	Panduit		
	Hoffman		
Thomas&Betts			
SCADA Comms Equipment	Manufacturer	Model Number	Notes
	(Radio)Cal Amp Viper	Model 140-5048-502	
	(Antenna) Laird	Y(B)4506	450-480 MHZ Freq.
	(Coaxial Cable) Commscope	FSJ4-50B	Or Equivalent
	(Jumper inside panel) Commscope	RG142-TNMNM-3M	Or Equivalent
	(Surge Suppressor) Polyphaser	IS-B50LN-C2	Or Equivalent
	ABB	PSE	
ABB	ACS310 VFD		

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Generator	Manufacturer	Model Number	Notes
	Caterpillar		
	Cummins/Onan		
	Kohler		
	Generac		
Water Service	Manufacturer	Model Number	Notes
	Merril	C7502	Frost proof model yard hydrant
	IOWA	Y34	Freezeless yard hydrant
Pump Access Hatch	Manufacturer	Model Number	Notes
	Flygt	Safe hatch	Must include: orange safety grate, hasp-equipped padlock clip (recessed locks not acceptable)
	EJ	Safe hatch	Must include: orange safety grate, hasp-equipped padlock clip (recessed locks not acceptable)
	Halliday	Safe hatch	Must include: orange safety grate, hasp-equipped padlock clip (recessed locks not acceptable)
ARV	Manufacturer	Model Number	Notes
	ARI	D-025	
	ARI	D-26	Based on flow rates and manufacturer's recommendations (Most Lift Station Pump Flows will require D-26 model instead of D-025)
	Vent-Tech	SXG-Series C	AIS Compliant
Swing Check Valve	Manufacturer	Model Number	Notes
	Dezurik		
	GA Industries		
	Milliken		