



Michigan Department of Environmental Quality
Drinking Water and Municipal Assistance Division

WATER WELL EQUIPMENT APPROVED LIST*

Pitless Well Adapters and Units¹

DICKEN MANUFACTURING COMPANY (MAASS, MANUFACTURING)

KLEAR-KASE CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING (Out of Production)

DUPLEX (WHITEWATER MANUFACTURING COMPANY)

TYPE 1060 SUB THREAD-ON UNIT - SUBMERSIBLE - 4"-6" CASING
TYPE 2015 SUB THREAD-ON UNIT - SUBMERSIBLE - 4"-6" CASING (Out of Production)
TYPE 1060 SW THREAD-ON UNIT - SHALLOW WELL JET - 2" CASING
TYPE 1060 J4C THREAD-ON UNIT - DEEP WELL JET - 4" CASING (Out of Production)
TYPE 1060 PJ-C THREAD-ON UNIT - DEEP WELL SINGLE PIPE PACKER - 2"- 3" CASING (3" Out of Production)
TYPE 2000 PJ2-C THREAD-ON UNIT - BACKTAPPED-DEEP WELL SINGLE PIPE PACKER - 2" CASING (Out of Production)
TYPE 2000 SW THREAD-ON UNIT - BACKTAPPED - SHALLOW WELL JET - 2" CASING (Out of Production)

MAASS, MANUFACTURING

MODEL B WELD-ON ADAPTER - SUBMERSIBLE - 4"-8" CASING
MODEL BX THREAD-ON UNIT - SUBMERSIBLE - 4"-8" CASING
MODEL CD THREAD-ON UNIT - BACKTAPPED - DEEP WELL SINGLE PIPE PACKER JET - 2" CASING (Out of Production)
MODEL CS THREAD-ON UNIT - BACKTAPPED - SHALLOW WELL JET - 2" CASING (Out of Production)
MODEL J WELD-ON ADAPTER - SUBMERSIBLE - 4"-18" CASING²
MODEL JC CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-7" CASING²
MODEL MB WELD OR THREAD-ON UNIT - SUBMERSIBLE - 8"-26" CASING²

MARTINSON MANUFACTURING COMPANY, INC. (MONITOR, BAKER MANUFACTURING COMPANY/CAMPBELL MANUFACTURING CO.)

C-SERIES CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING (Out of Production)

MERRILL MANUFACTURING

SP THREAD-ON UNIT - SUBMERSIBLE - 4"-8" CASING²
SDP W/CONCENTRIC COUPLING THREAD-ON UNIT - SHALLOW WELL JET - 4"-8" CASING (Out of Production)
SPK CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-10" CASING²
MCK CLAMP-ON ADAPTER - N.L.B., S.S. - SUBMERSIBLE - 4"-6" CASING²

MONITOR, BAKER MANUFACTURING COMPANY

FIBERLOC POLYMER CAMPSITES PITLESS KIT - 4"-5" CASING (Out of Production)
PS THREAD-ON UNIT - SUBMERSIBLE - 4"-10" CASING²
PS WELD-ON UNIT - SUBMERSIBLE 12"-26" CASING²
PJ CONCENTRIC THREAD-ON UNIT - SHALLOW WELL JET - 2"-3" casing²
PJ THREAD-ON UNIT - DEEP WELL SINGLE PIPE PACKER JET - 2"-3" CASING
PJ THREAD-ON UNIT - TWO-PIPE DEEP WELL JET - 4"-6" CASING (Out of Production)
PR THREAD-ON UNIT - RECIPROCATING (ROD) PUMP - 3"-6" CASING (Out of Production)
PL SNAPPY CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING²
PL SNAPPY WELD-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING (Out of Production)
6123BEZ WELD-ON ADAPTER - SUBMERSIBLE - 5", 6" I.D. AND 7" O.D. CASING²
8123BEZ WELD-ON ADAPTER - SUBMERSIBLE - 8", 10" AND 12" I.D. CASING²

PAULUS PLASTIC COMPANY

PAULUS PLASTIC PITLESS ADAPTER - 4"-5" CASING²

WELLS, INC.

SAFETY-SEAL SERIES A (LF) LEAD FREE BRASS CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING²
SAFETY-SEAL SERIES AB (LF) LEAD FREE BRASS CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING²
SAFETY-SEAL SERIES ABP CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING²
JA 4-1 3/4X 1C CLAMP-ON ADAPTER - TWO PIPE DEEP WELL JET - 4" CASING

WHITEWATER MANUFACTURING COMPANY

MODEL 52 SU WELD OR THREAD-ON UNIT - SUBMERSIBLE - 4"-20" CASING
MODEL 1J2 CONCENTRIC WELD-ON UNIT-DEEP WELL SINGLE PIPE PACKER JET - 2" CASING
MODEL 2J CONCENTRIC WELD OR THREAD-ON UNIT - TWO PIPE DEEP WELL JET - 4"-6" CASING (Out of Production)
ACE WELD-ON ADAPTER - SUBMERSIBLE - 4"-8" CASING (Out of Production)
QUICKY CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING (Out of Production)
MODEL 51-C SUBURBAN CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING (Out of Production)
ACE CLAMP-ON ADAPTER - 4"-6" CASING (Out of Production)

¹Advance Pump Equipment Company, Boscott, Inc., Dayton Precision Manufacturing Company, Flow-Rite Products Company, Sears, Roebuck & Company, and Williams Products Division pitless adapters are no longer available. The DEQ removed these products from the Water Well Equipment Approved List on 8/13/2018. If approved model information is needed regarding these manufacturers, please contact the DEQ-Source Water Unit.

²As of 7/20/2018, company listed products as "Lead Free" as defined within Section 1417 of the Federal Safe Drinking Water Act.



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Well Caps

The following well caps/seals meet the requirements set forth in R325.1657A of Part 127, Act 368 PA 1978 Administrative Rules. Caps and venting requirements became effective May 1, 1985. Vents must be installed on all wells except those having deep well, single pipe, packer jet installations or on flowing wells.

<u>A & B DIE CASTING</u> 6" Only	<u>FLOW-RITE</u> WATERTIGHT CAP	<u>MONITOR (BAKER)</u> 3" CAP* (FOR 2" SWJ PITLESS UNIT) TURTLE 4"-7" CAP WATERTIGHT CAP ³
<u>BOSCOTT, INC.,</u> 4"-6"	<u>HARVARD</u> WTC ³	<u>PAULUS</u> PLASTIC WELL CLOSURE 4"-5"
<u>BROTHERS CASTING</u> WATERTIGHT 6"	<u>LUNDE FOUNDRY, INC.</u> L-04 L-05 L-06	<u>W.D.B., Inc</u> WTC Well Cap
<u>CAMPBELL</u> WTC	<u>MAASS⁴</u> 4"-12"WT	<u>WELLS</u> WT, WTP WC SC, SCP, SCPT
<u>CAMPBELL-MARTINSON</u> LX41 LX51 LX61	<u>MERRILL</u> WC 4"-8" WCA 4"-6" WCB 4"-10" WCD 4"-6" WCM 6" WCO 4"-6" WCP 5"-6"	<u>WHITEWATER</u> MODEL 100 (Out of Production) MODEL 200 (Out of Production) MODEL 300
<u>DAYTON</u> WATERTIGHT CAP	<u>MIDWEST-DICKEN⁴</u> WTCC 4"-8" 359 WELL SEAL 2" 459SW CABLE SEAL W/VENT CAP ³	<u>WILLIAMS</u> WTV
<u>DUPLEX</u> 3" CAP FOR 2" SWJ PITLESS UNIT (Out of Production)		

³Caps have separate vents which must be threaded into cap

⁴These companies are now called MAASS Midwest

Hand Pumps

The hand pumps listed below meet the requirements of Rule 153 of Part 127, Act 368 PA of 1978 and may be used on public or private water supplies. These hand pumps have a closed spout, directed downward, and a pump rod that operates through a stuffing box and packing nut.

DEEP WELL HAND PUMPS (LIFT CYLINDER REQUIRED)

BISON PUMPS MODEL BPH-125: 5", 6" AND 8"; ALL OFFSET MOUNTED
COLUMBIANA FIGURE 80⁵, SINGLE ACTING FORCE PUMP (Out of Production)
DEMPSTER MODEL 210F AND 226F FORCE PUMP; MODEL 23F AND MODEL 40F

HELLER-ALLER (SEE HITZER INC)
HITZER INC MODEL 50-L⁵, 50-A⁵, AND ASB FORCE PUMP (FORMERLY "HELLER-ALLER")
MONITOR BAKER MODEL 11HD, 11HDS⁶, 12HD, AND 12HDS⁶ FORCE PUMP STAND
MONITOR BAKER MODEL 1DFHC, 1DFHCS⁶, 1DFHF, AND 11 DFHFS⁶ DRINKING FOUNTAIN STAND
ROBBINS & MYERS MODELS 1V12, 2V12 ROTARY HAND⁷

SHALLOW WELL HAND PUMPS (LIFT CYLINDER BUILT INTO PUMP)

COLUMBIANA FIGURE 55-3 HOUSE FORCE PUMP
HELLER-ALLER (SEE HITZER INC)
HITZER INC FIGURE PHB HOUSE FORCE PUMP (FORMERLY "HELLER-ALLER")

⁵These hand pumps use the drop pipe into the well as the pump base or may be threaded onto a 2" well casing by using a 2" x 1.25" reducer. If the drop pipe is used as a pump base, the opening between the drop pipe and well casing is sealed using the manufacturer's well cap base and a vented sanitary well seal.



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⁶These hand pumps include a shroud which provides additional sanitary protection by enclosing the pump rod and packing nut.
⁷This pump operates with a rotating pump rod and has a hand operated gear box rather than a lever fulcrum type handle operating type handle operating a reciprocating pump rod through a packing nut.

Yard Hydrants

The following frost-proof yard hydrants do not use a stop-and-waste valve and are approved for installation on any water supply. Yard hydrants with buried stop-and-waste valve are prohibited on all types of water supplies, under Section P1501.1.1 of Article 15 of the Michigan Plumbing code, R325.1674A of Part 127, Act 368 PA 1978 Administrative Rules, and Rule 1108(3) of Act 399, PA 1976.

- CAMPBELL** - SANITARY YARD HYDRANT (SYH)
- HIDE-DRANT CORPORATION** – HIDE-DRANT MODEL 99 YARD HYDRANT (model number change, see below)
 HIDE 7501-7503 HIDE SS2750 HIDE 104-108
- HOEPTNER PERFECTED PRODUCTS** - FREEZE FLOW SANITARY YARD HYDRANT
 STANDARD FREEZE FLOW SANITARY YARD HYDRANT
 EXECUTIVE FREEZE FLOW SANITARY YARD HYDRANT
- MERRILL MFG. CO.** - H-3000 SERIES WITH HEATING CABLE AND NO DRAIN HOLE
- MURDOCK, INC.** - EXPELO - SANITARY POST WATER HYDRANT
- SIMMONS MANUFACTURING COMPANY** – SIMMONS SANITARY YARD HYDRANT
- WHITEWATER MFG. CO.** - MODEL 256 FREEZE-PROOF/POLLUTION-PROOF YARD HYDRANT (Out of Production)
- WOODFORD MFG. CO.** - MODEL S1 FREEZE-PROOF/POLLUTION-PROOF YARD HYDRANT (Out of Production)
 MODEL S2 SANITARY HYDRANT (Out of Production)
 MODEL S3 SANITARY HYDRANT
 MODEL S4H SANITARY HYDRANT

Buried Pressure Tanks

ADVANCE-MORRISON			
HORIZONTAL UNDERGROUND PRESSURE TANK			
BWS-116-120		BWS-116-500	
BWS-116-220		BWS-116-1000	
BWS-116-315		BWS-116-1500	
AMTROL, INC.			
WELL-X-TROL "UG" (UNDERGROUND TANK)			
A. O. SMITH			
<i>Aqua Air Underground Tank, CentriPro, HydroPro, Perma-Air Diaphragm Tank, State Industries Company, Trident Ultra, Wellsaver</i>			
AD 36 (Out of Production)	PAD 14	PCM 20	SBD 14
AD 36S (Out of Production)	PAD 20	PCM 36	SBD 20
	PAD 31	PCM 52	SBD 32
	PAD 32	PCM 86	SBD 36S
	PAD 36S	PCM 88	SBD 52
	PAD 52		SBD 65
	PAD 86		SBD 86
	PAD 96		SBD 96
	PAD 119		SBD 119



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<u>A. O. SMITH - CONTINUED</u>			
LPT 14 (Out of Production) LPT 20 (Out of Production) LPT 36S (Out of Production) LPT 52 (Out of Production) LPT 86 (Out of Production) LPT 119 (Out of Production)	LLT 25 (Out of Production)	LMT 20 (Out of Production) LMT 36S (Out of Production) LMT 52 (Out of Production) LMT 86 (Out of Production)	SPMD 14 SPMD 20 SPMD 31 SPMD 32 SPMD 36S SPMD 52 SPMD 86 SPMD 96 SPMD 119
V45B V60B V140B V200B	T 45 T 60 T 80 T 100 T 140 T 200	TDU 14 TDU 20 TDU 26 TDU 32 TDU 35 TDU 45 TDU 65 TDU 85 TDU 86 TDU 119	
<u>CLAYTON MARK</u> PRECHARGED UNDERGROUND TANK			
<u>FLEXCON INDUSTRIES</u> WELL-RITE BG SERIES WR 60BG WR 100BG WR 140BG		FLEX-LITE PRESSURE TANKS FL5 FL7 FL12 FL17 FL22 FL28 FL30 FL40	
<u>IN-WELL TECHNOLOGIES</u> Fits into 4-inch, 5-inch, 6-inch, or larger wells NT-30SS 3 5/8-inch dia, 102-inch length (Out of Production) NT-40SS 4 1/2-inch dia, 48-inch length (Out of Production)			
<u>MEDALIST MFG. CO.</u> PERMA PRESSURE II AVU-H TUVM			
<u>MERRILL MFG. CO.</u> ULTIMATE BURIED TANK - POLYURETHANE FOAM ENCASED (Out of Production)			
<u>MONITOR (BAKER MFG. CO.)</u> TUVWF TUVWM (Out of Production)			
<u>PENTAIR WATER TREATMENT WELL-MATE, ProSource</u>			
WM-4 LP (Out of Production)	WM-14WB	+PSC-14-4	
WM-6 UG (Out of Production)	WM-4	+PSC-30-9	
WM-9 UG (Out of Production)	WM-6	+PSC-48-14	
WM-12 UG (Out of Production)	WM-9	+PSC-80-23	
WM-10LP	WM-12	+PSC-119-35	
WM-6LP	WM-23	+PSC-85-25	
WM-35WB		+PSC-60-20	
WM-25WB		+PSC-35-10	
WM-20WB		+PSC-20-6	
<u>STA-RITE INDUSTRIES</u> FIBERWOUND			
SR20-6S – 20 GALLONS		SR60-18 – 60 GALLONS	
SR35-10S – 35 GALLONS		SR85-25 – 85 GALLONS	
SR48-14S – 48 GALLONS		SR119-35 – 119 GALLONS	
<u>THE AMERICAN GRANBY CO.</u> HARVARD CHAMPION UG SERIES (UNDERGROUND TANK)			
<u>TITAN INDUSTRIES, INC.</u> Combo Tank			
<u>WHITewater MFG. CO.</u> PAT (PITLESS ADAPTER TANK) 60 – 1,500 GALLONS			

* - The approval and listing of a product does not ensure compliance with the requirements of the Michigan Safe Drinking Water Act, 1976 PA 399, as amended, and the Administrative Rules.