



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER BUREAU  
WELL CONSTRUCTION UNIT  
**WATER WELL EQUIPMENT APPROVAL LIST**

Items marked with a plus (+) have been added to the list since the last revision.

**PITLESS WELL ADAPTERS & UNITS**

**ADVANCE PUMP EQUIPMENT COMPANY**

21" SINGLE MODEL THREAD-ON UNIT - SUBMERSIBLE - 4"-8" CASING  
EZ WELD-X1-5"-6" CASING  
WELD-ON ADAPTER KIT - SUBMERSIBLE - 4"-8" CASING

**BOSCOTT, INC.**

CLEAR WELL CLAMP-ON PITLESS ADAPTER 4"

**DAYTON PRECISION MANUFACTURING COMPANY**

DPM-004 C CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING

**DICKEN MANUFACTURING COMPANY**

KLEAR-KASE CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING

**DUPLEX (WHITWATER MANUFACTURING COMPANY)**

TYPE 1060 SUB THREAD-ON UNIT - SUBMERSIBLE - 4"-6" CASING  
TYPE 2015 SUB THREAD-ON UNIT - SUBMERSIBLE - 4"-6" CASING  
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)

**FLOW-RITE PRODUCTS COMPANY, DIVISION OF BRADLYN INDUSTRIES**

CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING

**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" CASING  
MODEL JC CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-7" CASING  
MODEL MB WELD OR THREAD-ON UNIT - SUBMERSIBLE - 8"-26" CASING

**MARTINSON MANUFACTURING COMPANY, INC.**

C-SERIES CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING

**MERRILL MANUFACTURING**

SP THREAD-ON UNIT - SUBMERSIBLE - 4"-8" CASING  
SDP W/CONCENTRIC COUPLING THREAD-ON UNIT - SHALLOW WELL JET - 4"-8" CASING  
SPK CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-10" CASING  
MCK CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING

**MONITOR, BAKER MANUFACTURING COMPANY**

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

**PAULUS PLASTIC COMPANY**

PAULUS PLASTIC PITLESS ADAPTER - 4"-5" CASING

**SEARS, ROEBUCK & COMPANY, (MANUFACTURED BY BRADLYN INDUSTRIES)**

CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING

**WELLS, INC.**

SAFETY-SEAL SERIES A CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING  
SAFETY-SEAL SERIES P CLAMP-ON ADAPTER - SUBMERSIBLE - 5" PLASTIC CASING ONLY  
JA 4-1 3/4X 1C CLAMP-ON ADAPTER - TWO PIPE DEEP WELL JET - 4" CASING

**WHITWATER 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)

**WILLIAMS PRODUCTS DIVISION, KLASING INDUSTRIES, INC.**

M SUB 3 CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING  
EZ-UP PITLESS COUPLING - 4"-5" CASING  
LIFT-OUT SEAL CLAMP-ON ADAPTER - TWO PIPE DEEP WELL JET - 4"-6" CASING  
LIFT-OUT SEAL CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-10" CASING

EQC 2052 (7/2008)

# WELL CAPS

THE FOLLOWING WELL CAPS/SEALS MEET THE REQUIREMENTS SET FORTH IN R 325.1657A OF THE RULES FOR PART 127, ACT 368, PA 1978, MICHIGAN PUBLIC HEALTH CODE. CAPS & VENTING REQUIREMENTS BECAME EFFECTIVE ON MAY 1, 1985.

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

\*NOTE: THESE CAPS HAVE SEPARATE VENTS WHICH MUST BE THREADED INTO THE CAP  
 \*\*NOTE: THESE COMPANIES ARE NOW CALLED **MAASS-MIDWEST**

VENTS MUST BE INSTALLED ON ALL WELLS EXCEPT THOSE HAVING DEEP WELL, SINGLE PIPE, PACKER-JET INSTALLATIONS OR ON FLOWING WELLS.

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## APPROVED HAND PUMPS

THE HAND PUMPS LISTED BELOW MEET THE REQUIREMENTS OF RULE 153 OF PART 127, ACT 368, PA OF 1978, MICHIGAN'S GROUNDWATER QUALITY CONTROL ACT 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)

COLUMBIANA FIGURE 80\*, SINGLE ACTING FORCE PUMP  
 DEMPSTER MODEL 210F AND 226F FORCE PUMP; (**NEW**) MODEL 23F AND MODEL 40F  
 HELLER-ALLER (SEE HITZER INC)  
 HITZER INC MODEL 50-L\*, 50-A\*, AND ASB FORCE PUMP (FORMERLY "HELLER-ALLER")  
 MONITOR BAKER MODEL 11HD, 11HDS\*\*, 12HD, AND 12HDS\*\* FORCE PUMP STAND  
 MONITOR BAKER MODEL 1DFHC, 1DFHCS\*\*, 1DFHF, AND 11 DFHFS\*\* DRINKING FOUNTAIN STAND  
 ROBBINS & MYERS MODELS 1V12, 2V12 ROTARY HAND+

### 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")

\*THESE 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 1/4" REDUCER. IF THE DROP PIPE IS USED AS A PUMP BASE, THE OPENING BETWEEN THE DROP PIPE AND WELL CASING MUST BE SEALED USING A WELL CAP BASE AND SANITARY WELL SEAL.

\*\*THESE HAND PUMPS INCLUDE A SHROUD WHICH PROVIDES ADDITIONAL SANITARY PROTECTION BY ENCLOSING THE PUMP ROD AND PACKING NUT.

+THIS PUMP OPERATES WITH A ROTATING PUMP ROD AND HAS A HAND OPERATED GEAR BOX RATHER THAN A LEVER-FULCRUM TYPE HANDLE OPERATING A RECIPROCATING PUMP ROD THROUGH A PACKING NUT.

## **YARD HYDRANTS**

Items marked with a plus (+) have been added to the list since the last revision.

THE FOLLOWING FROST-PROOF YARD HYDRANTS DO NOT USE A STOP-AND-WASTE VALVE AND ARE APPROVED FOR INSTALLATION ON ANY WATER SUPPLY IN MICHIGAN.

**CAMPBELL** - SANITARY YARD HYDRANT (SYH)

**HIDE-DRANT CORPORATION** – HIDE-DRANT MODEL 99 YARD HYDRANT (model number change, see below)  
HIDE 7501-7503  
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

YARD HYDRANTS WITH BURIED STOP-AND-WASTE VALVES ARE PROHIBITED ON ALL TYPES OF WATER SUPPLIES, UNDER SECTION P1501.1.1 OF ARTICLE 15 OF THE MICHIGAN PLUMBING CODE, R 325.1674A OF THE RULES FOR PART 127, ACT 368, PA 1978, MICHIGAN PUBLIC HEALTH CODE, AND RULE 1108(3), ACT 399, PA 1976, MICHIGAN SAFE DRINKING WATER ACT.

# BURIED PRESSURE TANKS

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## ADVANCE-MORRISON

HORIZONTAL UNDERGROUND  
PRESSURE TANK  
BWS-116-120  
BWS-116-220  
BWS-116-315  
BWS-116-500  
BWS-116-1000  
BWS-116-1500

## AMTROL, INC.

WELL-X-TROL "UG"  
(UNDERGROUND TANK)

## A. O. SMITH

AQUA-AIR UNDERGROUND TANK

STATE INDUSTRIES COMPANY

Perma-Air Diaphragm Tank

PAD 14  
PAD 31 or 32  
PAD 36 or 36S  
PAD 96  
PAD 119  
PCM 20  
PCM 36S  
PCM 52  
PCM 88  
RELIANCE  
SBD 14  
SBD 20  
SBD 32  
SBD 36S  
SBD 52  
SBD 86  
SBD 96  
SBD 119  
STATE  
SPMD 14  
SPMD 20

SPMD 32  
SPMD 36S  
SPMD 52  
SPMD 86  
SPMD 96  
SPMD 119

WELLSAVER

LPT 14  
LPT 20  
LPT 36S  
LPT 52  
LPT 86  
LPT 119  
LLT 25  
LMT 20  
LMT 36S  
LMT 52  
LMT 86

## CLAYTON MARK

PRECHARGED UNDERGROUND  
TANK

## FLEXCON INDUSTRIES

WELL-RITE BG SERIES  
WR 60BG WR 100BG WR 140BG  
FLEX-LITE PRESSURE TANKS  
FL5 5L7 FL12 FL17 FL22 FL28  
FL30 FL40

## IN-WELL TECHNOLOGIES

Fits into 4-inch, 5-inch, 6-inch, or larger  
wells

NT-30SS<sup>1</sup> 3 5/8-inch dia, 102-inch length  
NT-40SS<sup>2</sup> 4 1/2-inch dia, 48-inch length

## MEDALIST MFG. CO.

PERMA PRESSURE II  
AVU-H  
TUVM

## MERRILL MFG. CO.

"ULTIMATE BURIED TANK"  
(POLYURETHANE FOAM ENCASED)

## MONITOR (BAKER MFG. CO.)

TUVWF  
TUVWM (Out of Production)

## STA-RITE INDUSTRIES

"FIBERWOUND"  
SR20-6S – 20 GALLONS  
SR35-10S – 35 GALLONS  
SR48-14S – 48 GALLONS  
SR60-18 – 60 GALLONS  
SR85-25 – 85 GALLONS  
SR119-35 – 119 GALLONS

## STRUCTURAL FIBERS

WELL-MATE UNDERGROUND TANK

WM-6 UG WM-14WB  
WM-9 UG WM-20WB  
WM-12 UG WM-25WB  
WM-4 WM-35WB  
WM-6 WM-4LP  
WM-9 WM-6LP  
WM-12 WM-9LP

## THE AMERICAN GRANBY CO.

HARVARD CHAMPION "UG" SERIES  
(UNDERGROUND TANK)


## TITAN INDUSTRIES, INC.

Combo Tank

## WHITEWATER MFG. CO.

PAT (PITLESS ADAPTER TANK)  
60 – 1,500 GALLONS

State of Michigan  
Jennifer M. Granholm, Governor

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