

## Oklahoma Pre-Approved Structures, Components, and Appurtenances

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#### NOTES:

These lists include structures, appurtenances, and components that have been approved for use under the applicable conservation practice standard. Items in these lists have been studied and reviewed for technical adequacy for their intended use. These lists are not intended to favor one company's product over another; they only reflect those items that have been submitted for review and have been approved. Items not in these lists must be individually approved before installed. These lists are applicable to the appropriate conservation practice standard regardless of program or cost share.

## **Oklahoma Pre-Approved Lists**

Some of the items listed are approved conditionally meaning that certain criteria must be met for them to be used. Conditional criteria, if applicable, follows each list.

### **PROCEDURE FOR SUBMITTAL OF ITEMS TO BE ADDED TO THE LIST**

1. Submittal shall be from the Zone Technical Committees through the State Field Office Technical Guide Committee. Field office personnel shall submit items for consideration to their Zone Technical Committee.
2. Prior to submittal, the person making the submission to the Zone Technical Committee shall provide adequate and appropriate specifications and/or manufacturer's information regarding the item to the appropriate Technical Specialist. The Technical Specialist shall review the request and conduct a site visit of at least two installations, interview the landowners using the item, and provide their recommendation.
3. The submittal shall include all pertinent data the Technical Specialist deems necessary to support their evaluation.
4. The State Field Office Technical Guide Committee will consider each submission and approve, reject, or return for additional information.

## Oklahoma Pre-Approved Lists

### Conservation Practice Standard – Watering Facility (614)

#### Freeze-Proof Tanks

Si Precast Concrete Products – precast concrete, freeze proof tanks  
100 GALLON/BTM PLB  
100 GALLON/END PLB  
200 GALLON/END PLB

Stewart Concrete Product – precast concrete, freeze proof tank  
Anti-Siphon C.W. 200 Livestock Water (250 gallons)

#### Energy-Free Fountain Waterers

Ritchie Thrifty King Electric-Free Fountain Waterers  
Miraco Mirafount Energy-Free Waterers  
Hawkeye Steel Products, Inc. – Pride Of The Farm, Polar-Max, Brower Energy Free  
Fountains – Models WPM20 and MPM20  
Behlen Mfg. Co. Energy-Free Drinkers

#### Fiberglass Stock and Storage Tanks meeting ASTM D-4097 or D-3299

The Mur-Tex Company  
Stock Tank (2' tall) Sizes 4' to 25'  
Open Top Storage Tank Sizes 8' to 25' diameter, 6' to 8' high

KBK Industries  
Stock Tank (2' tall) Sizes 4', 5', 6', 7', 8', 9', 10', 12', 15', and 22'  
Open Top Storage Tanks Sizes: 8' diameter X 6' tall

United Fiberglass, INC  
Stock Tank (2' tall) Sizes 4' to 25'  
Open Top Storage Tank Sizes 8' to 16' diameter, 6' to 8' high

W & W Fiberglass Tank Company  
Stock Tank (2' tall) Sizes 4', 6', 8', 10', 12', 16', 20, and 24'

#### Heavy Equipment Tire Trough

USA Tire Management Systems  
Stock Tank – Sizes 4' to 10' diameter with precast concrete insert

### Conservation Practice Standard – Wildlife Watering Facility (648)

Wildlife Water Guzzler, Fiberglass Reservoirs  
4 feet diameter by 2 feet deep, 200 gallons  
8 feet diameter by 2 feet deep, 750 gallons  
8 feet diameter by 6 feet deep, 2200 gallons

## Oklahoma Pre-Approved Lists

12 feet diameter by 6 feet deep, 5000 gallons

**Conservation Practice Standards – Pond (378), Grade Stabilization Structure (410), Structure for Water Control (587), Sediment Basin (350), Water and Sediment Control Basin (638)**

### Plastic Anti-seep Collar

Scheib Drainage Products, NO-SEEP Anti-seep collar

### Plastic Inlets

Agri Drain Inline Water Level Control Structures,  
Sizes: 2'X4" PVC to 12'X18" PVC

Agri Drain Inlet Water Level Control Structures,  
Sizes: 2'X4" PVC to 6'X24" PVC

**Conservation Practice Standards – Pond (378), Grade Stabilization Structure (410), Structure for Water Control (587)**

### Trash and Debris Guard

Agri Drain Heavy Duty Bar Guards  
Sizes: 12" to 30"

### Rodent Guards

Agri Drain Rat Guards  
Sizes: 4" to 60" Stainless Steel

**Conservation Practice Standard – Underground Outlet (620)**

### Inlets

Hickenbottom Inlets  
Sizes 5", 6", 8", 10", and 12"

**Conservation Practice Standards – Pond (378), Grade Stabilization Structure (410), Structure for Water Control (587), Sediment Basin (350), Water and Sediment Control Basin (638)**

### Turf Reinforced Matting (TRM)

North American Green C350, Permanent Turf Reinforcement Mat

**Conservation Practice Standards – Heavy Use Area Protection (561), Animal Trails and Walkways (575), Stream Crossing (578)**

## Oklahoma Pre-Approved Lists

### Cellular Confinement System

WebTec, Inc., Terracell 140, 175, and 280  
Cell Height 6 inches and 8 inches

**Conservation Practice Standards – Irrigation System, Sprinkler (443), Irrigation System, Microirrigation (441), Irrigation System, Tailwater Recovery (447), Irrigation System, Surface or Subsurface (442)**

### Chemigation Valves

Fresno Valves and Castings, Inc. -  
Fresno/Pierce Chemigation Check Valves Series CT100 4" to 12"  
GNI Waterman LLC -  
Waterman Chemigation Check Valves Series CPC-30 4" to 12"

**Conservation Practice Standards – Irrigation Water Management (449)**

### Flow Meters

McCrometer, Inc. – Series M100, M300, M1400 propeller flow meters 2" – 36"  
McCrometer, Inc. – Series MO300F Flow Meter and FS100 Insertion Flow Straightener  
Sensus Metering Systems – Model 101/102 propeller flow meters 3" – 36" and  
Irrigation Clamp-On Saddle Type propeller flow meters 4" – 24"  
Sparling Instruments – Model 312 "Irrigation Low Pressure" propeller meters 4" – 14"  
Elster Amco – Aquamaster electronic flow meters (any size)  
SeaMetrics, Inc. – Series AG1000/2000 electronic flow meters (any size)

## Oklahoma Pre-Approved Lists

### Conservation Practice Standard – Irrigation Pipeline (430)

#### Air Relief Valves

No.	Brand Name	Model	Base Dia. (in.)	Orifice Dia. (in.)		Max. Pipe Dia. (in.)	
				Fraction	Decimal	High Press.	Low Press.
1	Waterman	1" AVP-1	1	1/2	0.500	2	4
2	Fresno	100P	1	3/4	0.750	4	6
3	Waterman	1" CRP-8	2	1 1/8	1.125	4	10
4	Travis	AV-150	1 1/2	1 1/8	1.125	4	10
5	Waterman	AV-150B	1 1/2	1 1/8	1.125	4	10
6	Waterman	AV-150P	2	1 1/8	1.125	4	10
7	Travis	AV-200	2	1 1/4	1.250	6	12
8	Waterman	AV-150B	2	1 1/4	1.250	6	12
9	Waterman	AVR-2	2	1 7/16	1.4375	6	14
10	Waterman	AV-75	2	1 5/8	1.625	6	16
11	Fresno	AG200	2	1 5/8	1.625	6	16
12	Fresno	AG200A	2	1 3/4	1.750	8	16
13	Waterman	AV-150B	2 1/2	1 3/4	1.750	8	16
14	Waterman	AV-150C	2	1 3/4	1.750	8	16
15	Rain Bird	RB-2AV	2	1 3/4	1.750	8	16
16	Fresno	AG200-B	2	1 3/4	1.750	8	16
17	Waterman	AV-150P	3	1 3/16	1.8125	8	18
18	Waterman	VR-125	2	1 7/8	1.875	8	18
19	Waterman	AV-200	3	2 1/32	2.03125	8	20
20	Waterman	2" CRP-8	2	2 1/16	2.0625	8	20
21	Waterman	CR-100	2	2 1/16	2.0625	8	20
22	Waterman	2" AVP-1	2	2 1/8	2.125	8	20
23	Fresno	35	2	2 1/8	2.125	8	20
24	Waterman	3" AV-15 Manifold	3	2 3/16	2.1875	8	20
25	Waterman	AV-150B	3	2 1/4	2.250	10	22
26	Travis	AV-200	3	2 1/4	2.250	10	22
27	Fresno	AG300	3	2 3/8	2.375	10	22
28	Waterman	AV-75	3	2 7/16	2.4375	10	24
29	Waterman	4" AV-150 Manifold	4	2 1/2	2.500	10	24
30	Fresno	AG-300-B		2 1/2	2.500	10	24
31	Rain Bird	RB-3AV		2 9/16	2.5625	10	24
32	Waterman	VR-125	3	3	3.000	12	27
33	Waterman	AV-75	4	3	3.000	12	27
34	Waterman	CR-100	3	3 1/16	3.0625	12	27
35	Waterman	AV-150P	4	3 1/8	3.125	12	27
36	Fresno	35	3	3 1/8	3.125	12	27
37	Waterman	AV-150B	4	3 1/4	3.250	14	27
38	Fresno	AG400	4	3 1/4	3.250	14	27
39	Waterman	AV-150C	4	3 1/2	3.500	15	27
40	Fresno	AG400-A	4	3 1/2	3.500	15	27
41	Rain Bird	RB-4AV	4	3 3/5	3.600	15	27
42	Fresno	AG400-B	4	3 5/8	3.625	15	27
43	Waterman	VR-125	4	4	4.000	18	27
44	Waterman	CR-100	4	4	4.000	18	27
45	Fresno	35	4	4 1/8	4.125	18	27

## Oklahoma Pre-Approved Lists

### Air Relief Valves (cont.)

#### Low Pressure Pipelines (< 50 psi) – Air-and-Vacuum Valves

The diameter of the orifice (the opening that controls air flow during filling and emptying operations) of an air-and-vacuum valve shall equal or exceed that specified below for the appropriate pipe diameter.

Diameter of Pipeline (in.)	Diameter of Orifice (in.)
4	3/4
6	1 1/4
8	1 3/4
10	2 1/4
12	2 3/4
14	3 1/4
15	3 1/2
16	3 3/4
18	4

Manufacturers of air-and-vacuum valves shall provide dimensional data, which shall be the basis for selecting and accepting these valves.

#### High Pressure Pipelines (>50 psi)

The ratio of air-release valve diameter to pipe diameter should not be less than 0.1 for valves intended to release air when filling the pipe.

Air-release valves or combination air valves shall be used as need to permit air to escape from the pipeline while the line is at working pressure. Small orifices of these types shall be sized according to the working pressure and venting requirements recommended by the valve manufacturer.

Manufacturers of air valves shall provide dimensional data, which shall be the basis for selecting and accepting these valves.

## Oklahoma Pre-Approved Lists

### Conservation Practice Standard – Irrigation Pipeline (430)

#### Pressure Relief Valves

Brand Name	Model	Size (in.)	Low Pressure Pipe (<50 psi)		High Pressure Pipe (>50 psi)
			Max. Capacity at Preset Crack Pressure		Max. Pipe Diameter (in.)
			22 psi (GPM)	45 psi (GPM)	
Waterman	AA-9	3	700	960	12
	AA-9	4	1050	1380	16
	AA-9	6	1620	3000	24
	AA-6	2	60	275	8
	AA-6	2 ½	60	275	10
	AA-6	3	60	275	12
	AA-69	3	50	---	12
	AA-96	3	900	900	12
	AA-96-T	3	665	---	12
Fresno	900	3	700	1020	12
	900	4	1060	1400	16
	900	6	1600	2800	24
	600	2	75	210	8
	600	2 ½	75	210	10
	600	3	170	422	12
Pierce		3	140	---	12

- For high pressure pipelines, pressure relief valves shall be no smaller than ¼ inch nominal size for each inch of the pipeline diameter and shall be set to open at a pressure no greater than 5 psi above the pressure rating of the pipe.
- For low pressure pipelines, the flow capacity of pressure relief valves shall be the pipeline design flow rate with a pipeline pressure not greater than 50% more than the permissible working pressure for the pipe.
- The pressure at which the valves start to open shall be marked on each pressure relief valve. Adjustable pressure relief valves shall be sealed or otherwise altered to prevent changing the adjustment from that marked on the valve.
- Manufacturers of pressure relief valves shall provide capacity tables, based on performance tests, which give the discharge capacity of the valves at the maximum permissible pressure and differential pressure settings. Such tables shall be the basis for design and acceptance of these valves.

## Oklahoma Pre-Approved Lists

### Vendor Directory

#### **Agri Drain Corporation**

1462 340th St.  
Adair, IA 50002  
1-800-232-4742  
1-641-742-5211  
[www.agridrain.com](http://www.agridrain.com)

#### **Behlen Mfg. Co.**

P.O. Box 569  
Columbus, Nebraska 68602  
1-800-447-2751  
[www.behlencountry.com](http://www.behlencountry.com)

#### **Elster / Amco (Aquamaster)**

P.O. Box 1852  
Ocala, FL 34478-1852  
Phone: 1-800-874-0890  
[www.amcowater.com](http://www.amcowater.com)

#### **Fresno / Pierce**

7736 East Springfield Avenue  
P.O. Box 40  
Selma, CA 93662  
1-800-333-1658  
[www.fresnovalves.com](http://www.fresnovalves.com)

#### **GNI Waterman LLC**

P.O. Box 458  
Exeter, CA 93221  
1-800-331-0808  
[www.watermanusa.com](http://www.watermanusa.com)

#### **Hawkeye Steel Products, Inc.**

P.O. Box 2000  
Houghton, Iowa 52631  
1-319-469-4141  
[www.hawkeyesteel.com](http://www.hawkeyesteel.com)

#### **Hickenbottom Inc.**

2074 Hemlock Ave.  
Fairfield, IA 52556  
1-800-443-7879  
[www.hickenbottominc.com](http://www.hickenbottominc.com)

#### **KBK Industries, Inc.**

Rt. 2, Box 3 – East Hwy 96  
Rush Center, KS 67575  
1-785-372-4331

#### **McCrometer, Inc.**

3255 West Stetson Avenue  
Hemet, CA 92545  
Phone: 1-800-220-2279  
[www.mccrometer.com](http://www.mccrometer.com)

#### **Miraco**

P.O. Box 686  
Grinnell, Iowa 50112  
1-641-236-5822  
1-800-541-7866  
[www.miraco.com](http://www.miraco.com)

#### **North American Green**

14649 Highway 41 North  
Evansville, IN 47725  
1-800-772-2040  
[www.nagreen.com](http://www.nagreen.com)

#### **Pierce Corporation (now owned by Fresno)**

10 North Garfield Street  
Eugene, OR 97402  
1-541-485-3111  
[www.pierce-irrigation.com](http://www.pierce-irrigation.com)

#### **Rainbird**

1-800-724-6247  
[www.rainbird.com](http://www.rainbird.com)

#### **Ritchie Industries, Inc.**

120 South Main  
P.O. Box 730  
Conrad, Iowa 50621  
1-800-747-0222  
[www.ritchiefount.com](http://www.ritchiefount.com)

## Oklahoma Pre-Approved Lists

### **Scheib Drainage Products Inc.**

203 S. Monroe  
Oregon, Missouri 64473  
1-800-279-3575

### **SeaMetrics, Inc. (Panhandle)**

3836 US Highway 54  
Dalhart, TX 79022  
Phone: 1-806-333-2299  
[www.seametrics.com](http://www.seametrics.com)

### **SeaMetrics, Inc. (Rest of Oklahoma)**

7301 NW Andrews  
Lawton, OK 73505  
Phone: 1-580-531-0312  
[www.seametrics.com](http://www.seametrics.com)

### **Sensus Metering Systems**

#### Local Distributor:

National Waterworks, Inc.  
8401 SW 15<sup>th</sup> Street  
Oklahoma City, OK 73128  
Phone: 1-405-495-0699  
[www.sensus.com](http://www.sensus.com)

### **Si Precast Concrete Products**

11919 Cartwright  
Grandview, Missouri 64030  
1-816-966-4683  
1-888-262-7383  
[www.siprecast.com](http://www.siprecast.com)

### **Sparling Instruments, Inc.**

4097 N. Temple City Blvd.  
El Monte, CA 91731  
Phone: 1-800-800-3569  
[www.sparlinginstruments.com](http://www.sparlinginstruments.com)

### **Stewart Concrete Products**

2179 Hwy. 32  
Halfway, Missouri 65663  
1-417-445-2421

### **The Mur-Tex Company**

P.O. Box 31240  
Amarillo, Tx 79120  
1-800-299-7418  
[www.mur-tex.com](http://www.mur-tex.com)

### **Travis Pattern and Foundry**

Box 6325  
Spokane, WA 99207  
1-509-466-3545

### **United Fiberglass, Inc.**

P.O. Box 31628  
Amarillo, TX 79120  
1-800-487-4834

### **USA Tire Management Systems**

4901 G Street  
South Sioux City, NE 68776  
1-888-494-5620  
[www.usatireproducts.com](http://www.usatireproducts.com)

### **W & W Fiberglass Tank Company**

Rt 1 Box 1A  
Pampa, TX 79065  
[www.wwfrptank.com](http://www.wwfrptank.com)

### **WebTec, Inc.**

6509-C Northpark Blvd.  
Charlotte, NC 28216  
Phone: 1-800-438-0027  
[www.webtecgeos.com](http://www.webtecgeos.com)

### **Wildlife Water Guzzler, LLC**

1003 Buffalo Trail  
Canyon, TX 79015  
1-877-655-1209