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February 5, 2020

RE: AIS Waiver Request for 6" Stainless Steel Check Valve
Water Supply and Treatment System Improvements Project #FS–39–18–DWSRF–018
Contract III - Well
Lake Panorama Association
Panora, Iowa
SEH No. LKPAN 145815

Theresa Enright, SRF Coordinator
Water Quality Bureau, Iowa Department of Natural Resources
Wallace Building
502 East 9th Street
Des Moines, IA 50309

Dear Ms. Smith:

The purpose of this correspondence is to request a project specific waiver from the American Iron and Steel Requirements for the Lake Panorama Association Water Supply and Treatment System Improvements, Contract III – Well. The specific variance that is being requested is an availability waiver.

The following information is provided for your review:

1. Description of the foreign and domestic construction materials: Stainless Steel.
2. Unit of Measure: Each.
3. Quantity: One each.
4. Price: [redacted]
5. Time of Delivery or Availability: The estimated delivery time for the 6" check valve is approximately 6 weeks from authorization to proceed with the purchase.
6. Location of the Construction Project: The project is located at the Lake Panorama Association Water Plant, 6616 West RV Road, Panora, IA 50216.
7. Name and Address of the Proposed Supplier: Peerless Well & Pump, 17656 S. John Deere Rd., Dubuque, IA 52001.
8. A Detailed Justification for the Use of Foreign Construction Material: The proposed stainless steel check valve is to be located in the discharge piping of a submersible well pump system as required by the Great Lake Upper Mississippi River Board Design Standards. The nature of the ground water at the site is such that it is very aggressive requiring all materials in the constant contract with it to be made of stainless steel.
9. Supplier information or pricing information from a reasonable number of domestic suppliers indicating availability/delay date for construction materials: The contractors and design team have contacted the following suppliers:
   - Winpump – 930 27th Ave. SW, Cedar Rapids, IA 319.362.7012 – Tim Beranek
   - Wilmar Pump & Supply – 1607 Hobbs Drive, Delavan, WI, 53115, 262.728.5025 – Jamison Seuser
   - Preferred Pump – 65 Hollander Ct., Fond du Lac, WI, 54937, 920.921.7837 – Joe Thein
   - Headwater Wholesale – N1055 County Road L, Watertown, WI, 53098, 930.206.9800 – Tom Beran or Ezra Pett

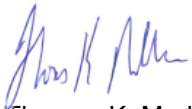
- Fletcher Pump – 101 Wilmont Dr., Waukesha, WI, 53189, 800.466.0199 – Matt Fletcher or Jeff
- Custom Pipe – Conroe, TX, 806.787.0086 – Scott Akins
- Mid American Pump & Supply – E Highway 6 & Trumbull Road B , Hastings, NE, 68901, 402.463.5658 – Zach Bramble
- Gicon Pumps – 17922 N I-27, Abernathy, TX, 79344 – Hector Lafuente

10. Documentation of the assistance recipient's efforts to find available domestic sources, such as a description of the process for identifying suppliers and a list of contacted suppliers: The list of contacted suppliers has been provide above. The list was generated utilizing a contractor that has significant experience in well projects and installation of accessories. In addition, market research was carried out by the EPA. Drinking Water State Revolving Fund team with no AIS product found.
11. Project Schedule:
    - Notice to Proceed for Construction — November 1, 2019
    - Installation of Check Valves — June 2020
    - Substantial Completion — January 30, 2021
12. Relevant excerpts from the project plans, specifications and permits indicating the required quality and quantity of construction materials:
    - Product information for check valve (attached).
    - Specification Section 33 28 21 – Attached with check valve highlighted.
    - GLUMRB 2012, Specification Section 3.2.7.3.4 (public document) "be equipped with a check valve in or at the well……"
13. Waiver request includes a statement from the prime contractor and/or supplier confirming the non-availability of the domestic construction materials for which the waiver is sought:
    - Gingerich Well and Pump Service, LLC has been working with their supplier (Peerless Pump) who works with the above mentioned check valve supplier. To date the vendor has not been able to find a manufacturer of stainless steel check valves that meets the American Iron and Steel Requirements. Please see the attached letter.

I would like to thank you in advance for your time and consideration of this waiver requirements. Please feel free to contact me with any questions.

Sincerely,

SHORT ELLIOTT HENDRICKSON INC.



Thomas K. Madden, PE
Project Manager

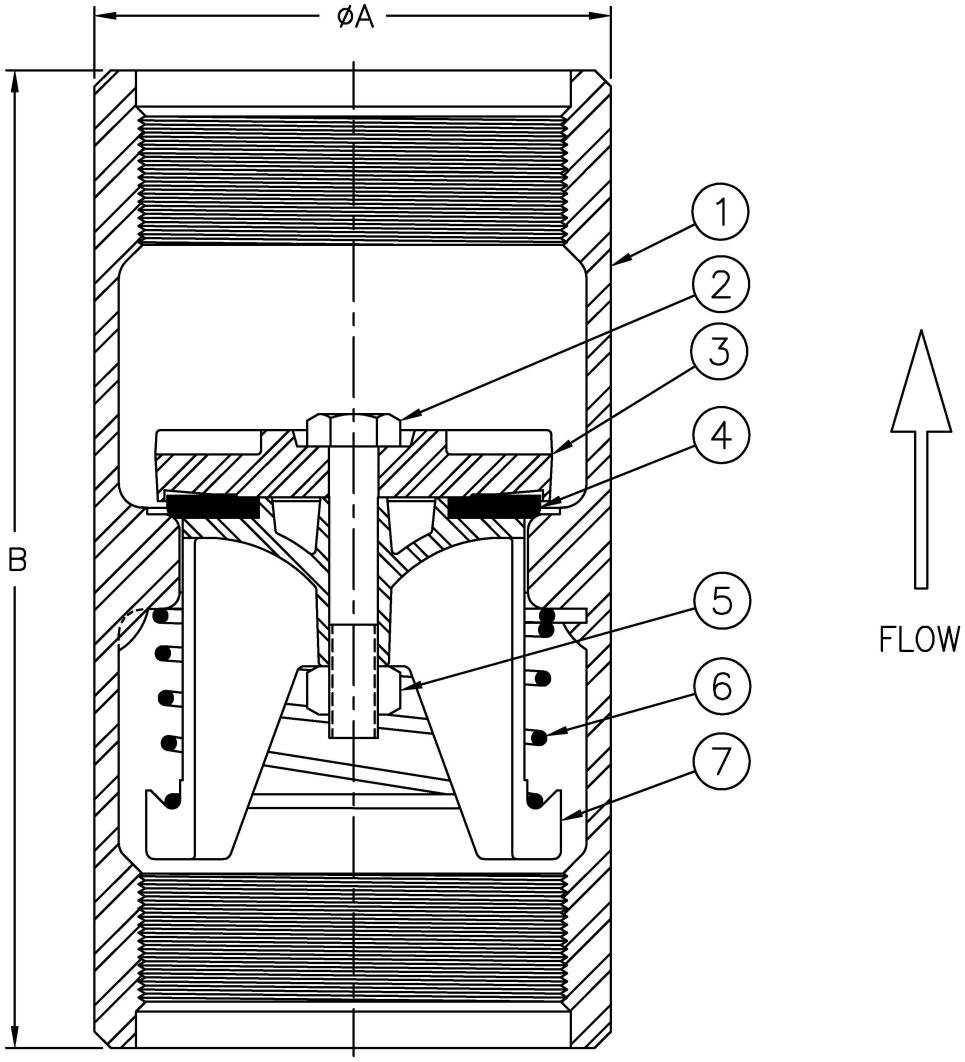
Enclosure
Cc: John Rutledge, Lake Panorama Association, 5006 Panora Drive, Panora, IA 50216
Sara Smith, PhD, PE, Water Supply Engineering, Iowa Department of Natural Resources, 502 East 9th, Des Moines, IA 50319

Stainless Steel Check Valve — Model 80S6

Sizes 6" / 150mm

Flomatic Corporation

Materials



Max Temp 400°F (200°C)
Max Pressure 400psi (28bar)

Item #	Qty	Description	Material	ASTM	Item #	Qty	Description	Material	ASTM
1	1	Body	Stainless Steel	316	5	1	Nut	Stainless Steel	316
2	1	Bolt	Stainless Steel	316	6	1	Spring	Stainless Steel	316
3	1	Dome	Stainless Steel	316	7	1	Guide	Stainless Steel	316
4	1	Disc	Viton	------					

Dimensions (FNPT x FNPT)

Size		Part #	A		B		Weight	
inch	mm		inch	mm	inch	mm	lbs	kg
6	150	4089S6	8	203	15-1/8	384	65	29

May 21, 1998
Dwg No: S4089S6 Rev: D (8/16)

FLOMATIC CORPORATION
GLENS FALLS, N.Y. 12801
PHONE (518) 761-9797
FAX (518) 761-9798

SECTION 33 28 21

WELL DISCHARGE PIPING AND ACCESSORIES

PART 1 GENERAL

1.01 DESCRIPTION

A. Well discharge column piping, valves, pitless unit and appurtenances.

1.02 REFERENCES

A. Construction methods and materials shall comply with American Water Works Association (AWWA) A100, 2007 Edition of Ten States Standards and Iowa Department of Natural Resources (IDNR) standards. Other testing and material standards referenced shall be as follows:
   1. ASTM - American Society of Testing and Materials.
   2. IDOT - Iowa Department of Transportation.
   3. Standard Methods - Standard Methods for Examination of Water and Waste Water, APHA, AWWA, WEF.
   4. AWS - American Welding Society Standards referenced shall be current editions.

PART 2 PRODUCTS

2.01 DISCHARGE PIPE

A. Discharge pipe inside the well casing shall be 6-inch, ASTM A312, Schedule 40, 304L stainless steel.
   1. Joints shall be threaded.
   2. Couplings shall be stainless steel with phenolic coating to prevent gauling of threads. Sealing tapes or paste will not be acceptable as a substitute for the phenolic coating requirement.
   3. Discharge column retainers or spiders shall be utilized to maintain the discharge pipe centered in the well casing.
   4. In addition to the pump check valve, an additional stainless steel check valve shall be installed in the discharge column.
   5. Supply fittings as necessary to adapt to pump discharge size.

B. Discharge pipe installed from the pitless unit to the water meter location shall be the following:
   1. 2-inch PVC conforming to ASTM D 2241, SDR 26, with a pressure rating of 160 psi. Joints shall be integral bell or separate coupling with elastomeric gaskets or glued joints.

2.02 PITLESS UNIT

A. Pitless unit shall be frost-proof and constructed of materials which provide strength and durability equal to well casing.
   1. The pitless unit shall be equipped with provisions for setting and pulling well pump and riser pipe, as well as hold-down hooks.
   2. The top of the pitless unit shall be capped with a cover having a downward flange which will overlap the edge of the unit.
   3. The cover shall be equipped with a screened vent. The cover shall be securely fastened to the unit and shall be sufficiently snug to the unit to be vermin proof and weatherproof. The cover shall provide for watertight entrance of electrical cables and vent piping. Casing vent shall terminate in a down turned position, at or above the top of the pitless unit, no less than 12 inches above grade or floor. Opening shall be a minimum of 1 ½" diameter covered with 24 mesh, corrosion resistant, screen.
   4. The cover shall provide provisions for water level measurement access.
   5. The pitless unit shall be shop fabricated from the point of connection with the well casing to the unit cap or cover and shall be threaded or welded to the well casing. If the connection to the

casing is field weld, the shop assembled unit must be designed specifically for field welding to the casing. The only field welding permitted will be that needed to connect a pitless unit to the casing.

6. All construction shall be water tight throughout and be of materials and weight at least equivalent and compatible to steel casing pipe. Inside diameter shall be equal to the well casing.
7. Connection to well discharge pipe shall be threaded, flanged or mechanical joint.
8. The cover shall be removable in such a manner as to provide access to disinfect the well.
9. The pitless unit shall terminate at least 18 inches above final ground elevation or three feet above 100 year flood level or highest known flood elevation, whichever is higher.

2.03 AIRLINE

A. The purpose of the airline is to allow periodic measurements of the water levels within the well.

B. Airline shall be corrosion resistant and be attached firmly to the drop pipe. Airline shall be connected to fitting on pitless unit to allow use without having to remove well head or remove the pump.

2.04 PUMP CONTROLS

A. Control system shall consist of the water treatment systems SCADA controls.

B. All electrical work to follow applicable codes.

2.05 SUBMERSIBLE LEVEL TRANSDUCER

A. A submersible level transducer shall be furnished by the Contract I Contractor and installed with the drop pipe by Well Contractor.

PART 3 EXECUTION

3.01 INSTALLATION OF PIPING AND ACCESSORIES

A. Piping and accessories including discharge piping, pitless unit and any other well system appurtenances shall be installed in accordance with equipment manufacturer's published recommendations. Piping and appurtenances that convey water must be certified ANSI/NSF 61 standards.

B. A minimum of one retainer shall be provided for each 50 feet of discharge pipe. Provisions shall be made for fastening the retainer spiders to prevent them from sliding on the pipe and damaging the power cable when the pump is installed in the well.

C. Installation of pitless unit to the cut-off casing shall be watertight.

D. Pitless unit shall form an unbroken extension of the well casing from below the frost line to above the ground level.

E. The minimum depth of bury for the discharge pipe shall be 6 feet below the finished grade.

F. Visual leak detection will be performed upon completion. Any leaks shall be corrected.

G. All piping and equipment shall be disinfected by charging the system with chlorinated water. System shall be flushed and tested for bacteria prior to use. A failed bacteria test shall be followed up with another chlorine charge and flushed until bacteria test passes.

END OF SECTION

GINGERICH
WELL & PUMP SERVICE, LLC
YOUR WELL-BEING OUR BUSINESS

1331 Highway 1
Kalona, IA 52247
(319) 656-2664
Fax (319) 656-2676
(800) 356-2664

December 17, 2019

RE: 80S6 Stainless steel check valve

To Whom It May Concern:

As of the date of this letter, we have not been able to find a source for a Stainless Steel check valve that meets the requirement of the project and is compliant with the American Iron and Steel program. The following suppliers and/or manufacturers have been contacted to attempt to secure one:

Winpump – 930 27th Ave. SW – Cedar Rapids, IA – 319-362-7012 – Tim Beranek
Wilmar Pump & Supply – 1607 Hobbs Drive – Delavan, WI 53115 – 262-728-5025 – Jamison Seuser
Preferred Pump – 65 Hollander Ct. – Fond du Lac, WI 54937 – 920-921-7867 – Joe Thein
Headwater Wholesale – N1055 County Road L – Watertown, WI 53098 – 920-206-9800 – Tom Beran or Ezra Pett
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Mid America Pump & Supply – E Highway 6 & Trumbull Road B – Hastings, NE 68901 – 402-463-5658 – Zach Bramble
Gicon Pumps – 17922 N I-27 – Abernathy, TX 79311 – Hector Lafuente

The cost of the check valve is [redacted]

Total materials for the project are in excess of [redacted]

We would request to classify the check valve as "deminimus" and be allowed to purchase a stainless steel check valve that will meet the requirements of the project.

Thank you,

Klint Gingerich
Gingerich Well & Pump Service