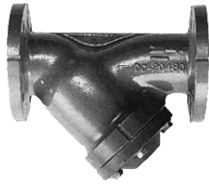


**WILKINS**  
 a **ZURN** company

# Model FS

Cast Iron "Y" Type Strainer

## SPECIFICATION SUBMITTAL SHEET



### FEATURES

Sizes: ☐ 2½" ☐ 3" ☒ 4" ☐ 6" ☐ 8" ☐ 10"

Pressure/temperature: 200 psi @ 150°F WOG  
125 psi @ 450°F Steam

End connections: Flanged Class 125 lb

(Closure plug not furnished)

### OPTIONS

(Suffixes can be combined)

- ☒ - with epoxy paint (standard)  
☐ C - with FDA epoxy coating inside and out

### APPLICATION

Designed for installation on potable water lines to protect downstream equipment from malfunction or premature failure due to build-up of sediment or debris.

### STANDARDS COMPLIANCE

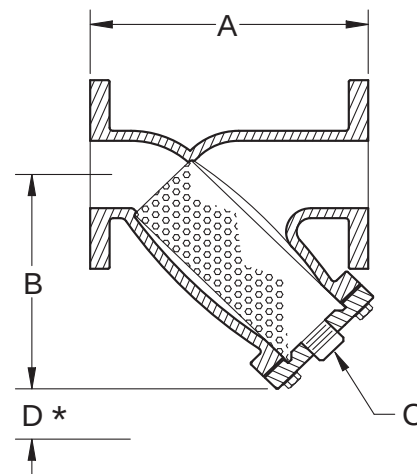
- MIL-S 16293F Type 2

### MATERIALS

Main valve body Cast Iron ASTM A 126 Class B  
 Access cover Cast Iron ASTM A 126 Class B  
 Coatings FDA Approved Epoxy Finish (FSC)  
 Screens Perforated Stainless Steel, 300 Series

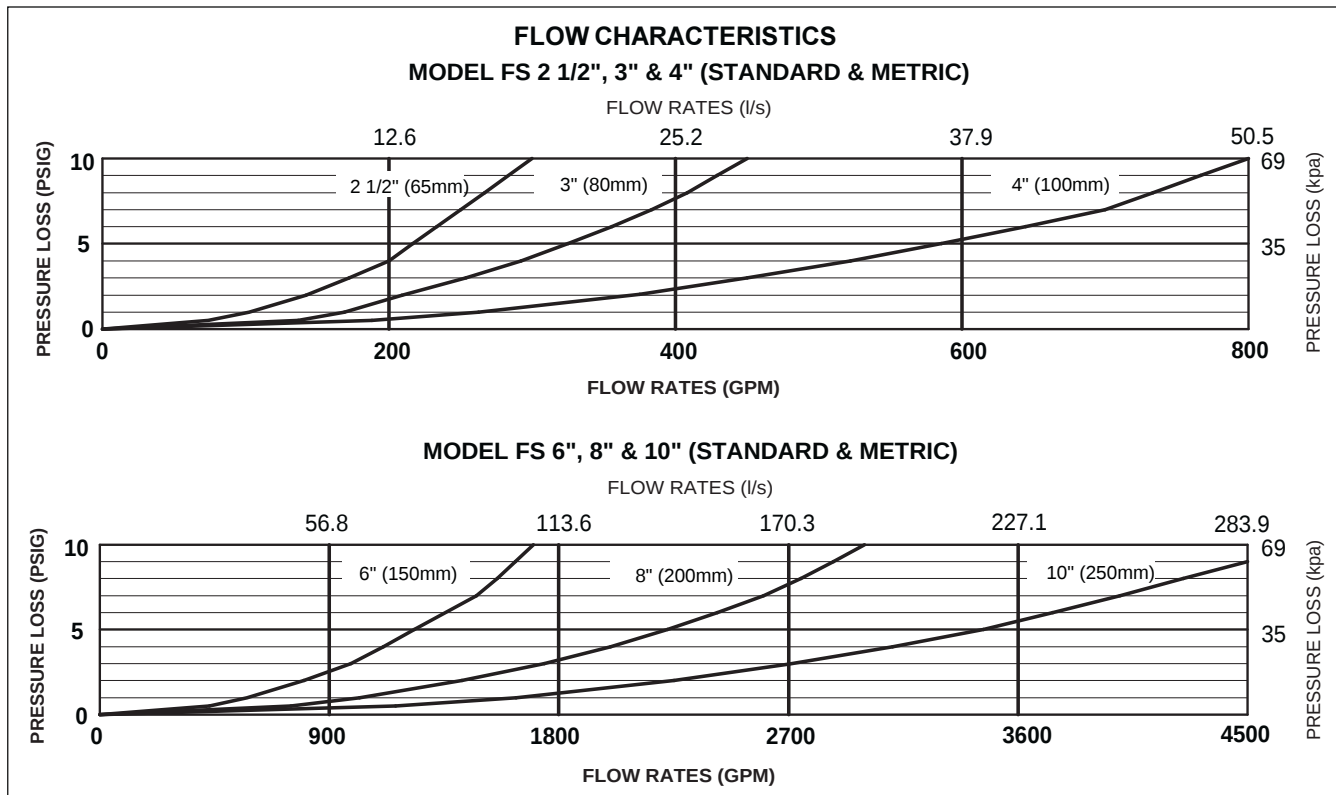
### SCREEN

| SIZE<br>inch | OPENINGS<br>(dia.) | MATERIAL<br>THICKNESS | HOLES PER<br>sq/in. |
|--------------|--------------------|-----------------------|---------------------|
| 2 1/2        | 0.045              | 0.020                 | 225                 |
| 3            | 0.045              | 0.020                 | 225                 |
| 4            | 0.062              | 0.020                 | 98                  |
| 6            | 0.062              | 0.020                 | 98                  |
| 8            | 0.125              | 0.020                 | 29                  |
| 10           | 0.125              | 0.032                 | 29                  |



| SIZE  |     | DIMENSIONS (approximate) |     |        |     |           |     |     | WEIGHT |       |
|-------|-----|--------------------------|-----|--------|-----|-----------|-----|-----|--------|-------|
|       |     | A                        |     | B      |     | C         | D*  |     |        |       |
| in.   | mm  | in.                      | mm  | in.    | mm  | C         | in. | mm  | lbs.   | kg.   |
| 2 1/2 | 65  | 10                       | 254 | 8 1/4  | 210 | 1 1/4 NPT | 6   | 152 | 35     | 16    |
| 3     | 80  | 10 1/2                   | 267 | 9 1/4  | 235 | 1 1/4 NPT | 6   | 152 | 45     | 20.5  |
| 4     | 100 | 15                       | 381 | 12 1/2 | 318 | 2 NPT     | 9   | 229 | 61     | 27.5  |
| 6     | 150 | 18                       | 457 | 14     | 356 | 2 NPT     | 10  | 254 | 165    | 75    |
| 8     | 200 | 24 1/4                   | 616 | 17 3/4 | 451 | 2 NPT     | 11  | 279 | 239    | 108.5 |
| 10    | 250 | 29 1/2                   | 749 | 21 1/4 | 540 | 2 NPT     | 14  | 356 | 394    | 178.5 |

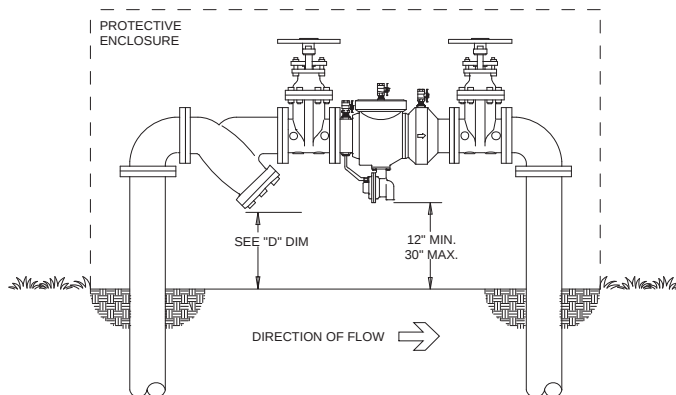
\* vertical clearance for screen removal



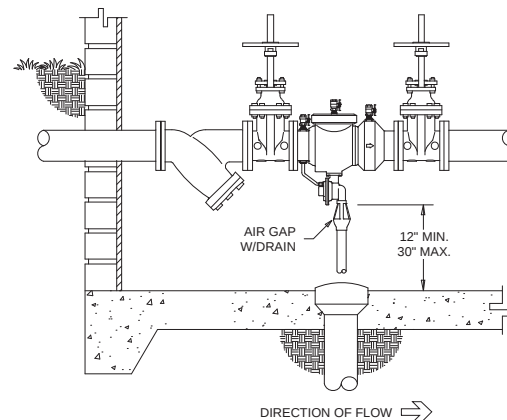
### TYPICAL INSTALLATION

Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted with sufficient clearance for maintenance in accordance with the manufacturers' instructions and the latest edition of the Uniform Plumbing Code. The installation shall be made so that no part of the unit can be submerged.

| Capacity thru Schedule 40 Pipe (GPM) |          |            |           |           |
|--------------------------------------|----------|------------|-----------|-----------|
| Pipe size                            | 5 ft/sec | 7.5 ft/sec | 10 ft/sec | 15 ft/sec |
| 2 1/2"                               | 75       | 112        | 149       | 224       |
| 3"                                   | 115      | 173        | 230       | 346       |
| 4"                                   | 198      | 298        | 397       | 595       |
| 6"                                   | 450      | 675        | 900       | 1351      |
| 8"                                   | 780      | 1169       | 1559      | 2339      |
| 10"                                  | 1229     | 1843       | 2458      | 3687      |



OUTDOOR INSTALLATION



INDOOR INSTALLATION

### SPECIFICATIONS

The Cast Iron "Y" type strainer shall be in compliance with MIL-S-16293F Type 2. The main body and access cover shall be cast iron (ASTM A 126 Class B) and available with or without an FDA approved epoxy coating inside and out. The integral strainer screen shall be accessible for cleaning without removing the device from the line. The Cast Iron "Y" type strainer shall be a WILKINS Model FS or Model FSC.

### Page 2 of 2

**BFP-1**

W375ASTP

WILKINS

WFSCP

WILKINS

WAG6

WILKINS

WZW209P

WILKINS

**BFP-1 BACKFLOW PREVENTER PER ADDENDUM #2-1**

LEAD LAW COMPLIANT 4 STAINLESS STEEL RPP ASSEMBLY

STAINLESS STEEL BODY FLGXFLG

4" FS CAST IRON FLANGE WYE STRAINER

2-1/2" - 6 AIR GAP

LF 4 PRESSURE REDUCING VALVE 150# FXF

1. BFP-1 - Provide caps and tethers for each test cock.
2. PRV - Coating to be FDA approved or comply with AWWA C550

## Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: June 13, 2016

Attention: [stl-cac@cannondesign.com](mailto:stl-cac@cannondesign.com)

Contact Person / WTA Field Inspector:  
Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Mike Whitworth (WES)

Project No. WT 14127.01  
WES 607

☐ UPS ☐ Courier ☒ **Email**

| Copies | No.       | Description                                          |
|--------|-----------|------------------------------------------------------|
| 1 PDF  | 221119P02 | (Submittal No.'s)                                    |
|        |           | (Cannon #22 1119-004) – (Paric #15051-) – (WES #607) |
|        |           | • <b>Domestic Water Piping Specialties</b>           |
|        |           |                                                      |
|        |           |                                                      |

**\*Remarks: See Submittal Review from Webb Engineering.**

c: Kevin Patel  
[Kpatel@cannondesign.com](mailto:Kpatel@cannondesign.com)

☒ **\*Reviewed**

☒ **\*No Exceptions Taken**

☒ **\*Make Corrections Noted  
\*Amend & Resubmit**

☒ **\*Make Corrections As Noted,  
No Resubmittal Required**

Corrections or comments made on shop drawings during this review do not relieve contractor from compliance with requirements of drawings and specifications. This check is only for review of general conformance with the design concept of project and general compliance with information given in contract documents. Contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.



1400 S. 3<sup>rd</sup> Street, Suite 201  
St. Louis, Missouri 63104  
Phone: (314) 588-0600  
Fax: (314) 588-0604

# Letter of Transmittal

**To:** wtashop@wmtao.com

**From:** Mike Whitworth

**Date:** June 11, 2016

**Re:** Webster University ISB

**WES No:** 607

☐ For your Files

☐ For Review

☐ Please Comment

☐ Please Reply

| Item No. | Description                                                        | No. of Copies | Date       |
|----------|--------------------------------------------------------------------|---------------|------------|
| 1        | Shop Drawing Review –<br>22 1119 Domestic Water Piping Specialties | 1             | 06-11-2016 |
|          |                                                                    |               |            |
|          |                                                                    |               |            |
|          |                                                                    |               |            |

•Signature: Mike Whitworth

**WEBB  
ENGINEERING  
SERVICES INC.**[www.webb-engineering.com](http://www.webb-engineering.com)

The review of this submittal is limited to the general conformance with the designated design concept and intent of this project and with the general compliance of the information provided in the contract documents. All comments, remarks and notations made on the submittal(s) as a result of this review do not relieve the contractor from full compliance with requirements of the contract documents. Approval for a specific item shall not include approval of an assembly of which the item is not a component. The contractor is solely responsible for rough-in and installation confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordination of this work with that of other trades on this project; and in a safe and satisfactory manner. All work shall be installed in full compliance with the manufacturer's recommendation, Federal, State and Local rules and regulation and the Authority Having Jurisdiction (AHJ) and applicable adopted codes and standards.

PROJECT NAME: Webster University ISBLOCATION: St. Louis MissouriCLIENT PROJ. NO.: N/AWES PROJ. NO.: 607SPEC SECTION: 22 1119  
Domestic Water Piping  
SpecialtiesSUBMITTAL ITEM: See Below -CONTRACTOR: Deluca Plumbing, LLC.CTR. SUBMITTAL # 22 1119-004SUBMITTAL DATE: June 06, 2016DATE RECEIVED: June 08, 2016RECEIVED VIA: E-MailRECEIVED FROM: WTADATE RETURNED: JUNE 11, 2016RETURNED VIA: E-MAILRETRURNED TO: WTASHOP@WMTAO.COM

## STATUS KEY:

NO EXCEPTION TAKEN

MAKE CORRECTIONS NOTED, NO RESUBMITTAL:

AMEND AND RESUBMIT

REJECTED, SEE REMARKS:

REVIEWED ONLY

| NEC | MCN | AAR | REJ | REV | ITEM                                                                 | REMARKS                                                 |
|-----|-----|-----|-----|-----|----------------------------------------------------------------------|---------------------------------------------------------|
|     | X   |     |     |     | BFP-1 Backflow Preventer<br>Zurn<br>Model – 375ASTP                  | 1. Provide caps and tethers for each test cock.         |
| X   |     |     |     |     | Strainer<br>Wilkins a Zurn Company<br>Model - FSCP                   |                                                         |
| X   |     |     |     |     | Air Gap Fitting<br>Zurn<br>Model – AG6                               |                                                         |
|     | X   |     |     |     | PRV Pressure Reducing<br>Valve<br>Zurn<br>Model – ZW209              | 1. Coating to be FDA approved or comply with AWWA C550. |
|     | X   |     |     |     | BFP-2 Backflow Preventer<br>Zurn<br>Model – 375XLSF<br>With Strainer | 1. Provide caps and tethers for each test cock.         |
| X   |     |     |     |     | Air Gap Fitting<br>Zurn<br>Model – AG4                               |                                                         |
|     | X   |     |     |     | BFP-3 Backflow Preventer<br>Zurn<br>Model – 375XLSG<br>With Strainer | 1. Provide caps and tethers for each test cock.         |
| X   |     |     |     |     | Air Gap Fitting<br>Zurn<br>Model – AG4                               |                                                         |



|   |   |   |   |  |                                                                      |                                                                                                                                                                      |
|---|---|---|---|--|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | X |   |   |  | BFP-4 Backflow Preventer<br>Zurn<br>Model – 375XLSH<br>With Strainer | 1. Provide caps and tethers for each test cock.                                                                                                                      |
| X |   |   |   |  | Air Gap Fitting<br>Zurn<br>Model – AG5                               |                                                                                                                                                                      |
|   |   | X |   |  | Trap Primer<br>PPP<br>Model – PR-500                                 | 1. This type/style of trap primer is not specified for this project. Is contractor proposing to use this type/style rather than the waste arm trap primer?           |
|   |   | X | X |  | Water Hammer Arrester<br>Sioux Chief<br>Model 650-660 Series         | 1. Provide type/style specified. Refer to specification section 22 1119. Part 2 Products, paragraph 2.12.<br>2. Refer to Plumbing Fixture Schedule on drawing P0601. |

REVIEWED BY: Michael R. Whitworth DATE: June 11, 2016

THESE COMMENTS ARE TO BE ATTACHED TO ALL COPIES OF THE SHOP DRAWING REFERENCED ABOVE.





77 Westport Plaza  
Suite 250  
St. Louis, MO 63146

**TRANSMITTAL**

**No. 15051-0073**

*Paric Corporation*

**PROJECT:** 15051-Webster University Interdisciplinary Science Building

**DATE:** 06/07/2016

**TO:** Cannon Design  
1100 Clark Ave  
St Louis MO 63102

**RE:** BFP 1-4 WHA TP Product data

**ATTN:** Kelvin Patel

**JOB:** 15051

| WE ARE SENDING:                                         |  | SUBMITTED FOR:                               | ACTION TAKEN:                                             |
|---------------------------------------------------------|--|----------------------------------------------|-----------------------------------------------------------|
| <input type="checkbox"/> Shop Drawings                  |  | <input checked="" type="checkbox"/> Approval | <input checked="" type="checkbox"/> Approved as Submitted |
| <input type="checkbox"/> Letter                         |  | <input type="checkbox"/> Your Use            | <input type="checkbox"/> Approved as Noted                |
| <input type="checkbox"/> Prints                         |  | <input type="checkbox"/> As Requested        | <input type="checkbox"/> Returned After Loan              |
| <input type="checkbox"/> Change Order                   |  | <input type="checkbox"/> Review and Comment  | <input type="checkbox"/> Resubmit                         |
| <input type="checkbox"/> Plans                          |  |                                              | <input type="checkbox"/> Submit                           |
| <input type="checkbox"/> Samples                        |  | SENT VIA:                                    | <input type="checkbox"/> Returned                         |
| <input type="checkbox"/> Specifications                 |  | <input type="checkbox"/> Attached            | <input type="checkbox"/> Returned for Corrections         |
| <input checked="" type="checkbox"/> Other: Product Data |  | <input type="checkbox"/> Separate Cover Via: | <input type="checkbox"/> Due Date:                        |

| Item      | Package | Code      | Rev. | Copies | Date       | Description                 | Status    |
|-----------|---------|-----------|------|--------|------------|-----------------------------|-----------|
| Submittal |         | 221119-04 | 1    |        | 06/07/2016 | BFP 1-4 WHA TP Product data | Submitted |

**NOTES:**

**CC:** Paric Corporation, Kathy Bathe

**Project Coordinator:** Paric Corporation, Kathy Bathe

**Signed:** \_\_\_\_\_  
Devin Gates

## **Shop Drawing Submittal**

Project Name: **WEBSTER ISB**

Specification # **221119-02**

Specification Description: Domestic Water Specialties  
- BFP 1-4  
- Trap Primers  
- Water Hammer Arrestors

Date: 06-06-16

General Contractor / Construction Manager: Paric

Contractor: DeLuca Plumbing, L.L.C.  
8465 Delport Drive  
St. Louis, MO 63114

Supplier: Various

Manufacturer: Various

Reviewed & Approved by: DeLuca Plumbing 06-06-16

Action: Forward to GC/CM for Review & Approval

|  |
|--|
|  |
|--|