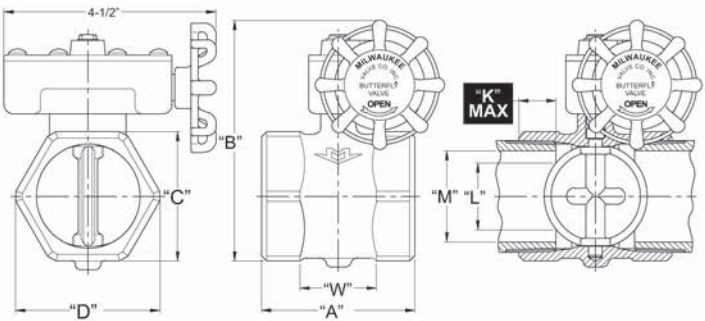


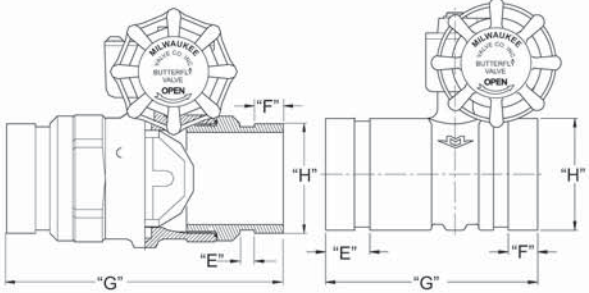
INDOOR/OUTDOOR

butterball® BUTTERFLY VALVES

VALVES LESS SUPERVISORY TAMPER SWITCH ASSEMBLY



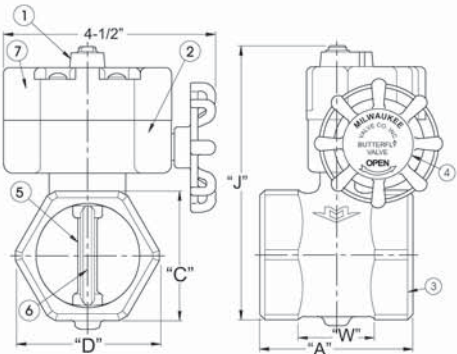
BB-SC100 (Threaded Ends)
Sizes 1", 1-1/4", 1-1/2", 2", 2-1/2"



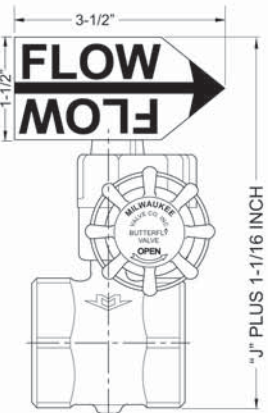
BBVSC100
3 piece with
Grooved Ends
Size 2"

BBVSC100
Uni-body with
Grooved Ends
Size 2-1/2"

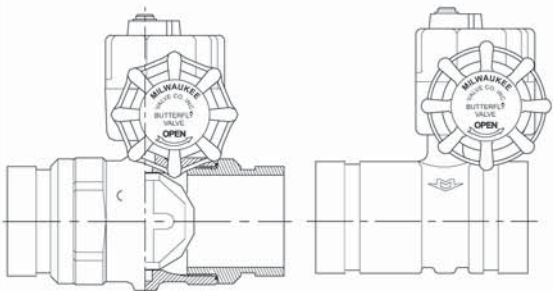
VALVES WITH SUPERVISORY TAMPER SWITCH ASSEMBLY



THREADED ENDS
BB-SCS02



NYC INDICATOR
(Available on both switched
and non-switched models.)



BBVSCS02
3 piece with
Grooved Ends
Size 2"

BBVSCS02
Uni-body with
Grooved Ends
Size 2-1/2"

ALL DIMENSIONS-INCHES

Threaded					Grooved		
SIZE	1"	1-1/4"	1-1/2"	2"	SIZE	2"	2-1/2"
A	2-1/8	2-5/8	2-7/8	3-1/4	A	-	4-1/8
B	3-15/16	4-9/32	4-1/2	5	B	5	5-13/32
C	1-9/16	1-15/16	2-3/16	2-3/4	C	2-3/4	3-3/16
D	1-23/32	2-7/64	2-3/8	3-1/16	D	3-1/16	3-1/2
J	4-15/16	5-1/8	5-19/32	6-1/8	E	5/8	15/16
K	.66	.73	.73	.79	F	5/16	5/8
L	.83	.90	.99	1.41	G	6	4-1/2
M-40	1.05	1.38	1.61	2.07	H	2-3/8	2-7/8
M-80	.96	1.28	1.50	1.94	J	6-1/8	6-1/4
N-40	2.25	2	2.5	2.25	K	.79	1.18
W	1-1/8	1-1/4	1-13/32	1-11/16	L	1.41	1.29

M-40 ARE DIMENSIONS USING SCHEDULE 40 PIPE
M-80 ARE DIMENSIONS USING SCHEDULE 80 PIPE
N-40 IS FLOW RESISTANCE EXPRESSED IN EQUIVALENT LENGTH OF SCHEDULE 40 PIPE
W IS THE WRENCH MAKE-UP LENGTH

MATERIAL LIST

NO.	PART	MATERIAL	SPECIFICATION
1	Indicator	Sintered Iron	F0008P
2	Housing	Bronze	ASTM 584
3	Body	Bronze	ASTM 584
4	Handle	Brass	
5	Disc	Stainless Steel	Type 304
6	Disc Seal	EPDM Elastomer	
7	Switch Housing	Die Cast Aluminum	

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: December 15, 2016

Attention: 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	210523F01	(Submittal No.'s:)
		(Cannon #210523-002) - (Paric #15051-0353) – (WES #607)
		➤ Valves for Fire Protection Piping Product Data

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

c: Kelvin Patel
Kpatel@cannondesign.com

☒ ***Reviewed**

☒ ***No Exceptions Taken**

☐

☐ *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. 3rd 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: **December 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 – (210523-002) 210523 General Duty Valves for Water-Based Fire-Suppression Piping	1	12/11/16

•Signature: Mike Whitworth

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
 LOCATION: ISB
 CLIENT PROJ. NO.: St. Louis Missouri
 WES PROJ. NO.: N/A
 SPECIFICATION SECTION: 607
 SUBMITTAL ITEM: 210523
 General Duty Valves for
 Water Based Fire-
 Suppression Piping
 SUBMITTAL ITEM: See Below -

CONTRACTOR: J.F. Ahern Co.
 CTR. SUBMITTAL #: 21 0523-002
 SUBMITTAL DATE: November 29, 2016
 DATE RECEIVED: December 07, 2016
 RECEIVED VIA: E-Mail
 RECEIVED FROM: WTA
 DATE RETURNED: DECEMBER 11, 2016
 RETURNED VIA: E-MAIL
 RETRURNED 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					Iron Body Gate Valves NIBCO Model - F-607-RW	
X					Butterfly Valves Victaulic Model - Fire Lock Style 705	
X					Swing Check Valve Viking Model - D-1 & G-1	
X					Bronze Gate Valves NIBCO Model - T-104-0	
X					Bronze Angle Valves NIBCO Model - T-301-W	
X					Bronze Globe Valves NIBCO Model - KT-65-UL	
X					Bronze Globe Valves NIBCO Model - KT-211-W-UL	

X					Bronze Side Outlet Globe Valves NIBCO Model – KT-291-W3	
X					Bronze Check Valves NIBCO Model – KT-403-W	
X					Bronze Ball Valves NIBCO Model – KT-585-70-UL and KT-580-70-UL	
X					Fire Lock Ball Valve Victaulic Model - Fire Lock Series 728	
X					Butterball Butterfly Valves Milwaukee Valve Model - Various	
X					Calibrated Pressure Relief Valves Watts Model – Series 530C	
X					Test and Drain Valve AGF Manufacturing Model – 1011A	
X					Double Check Valve Assembly Zurn Model - 350A	
X					Forged Brass Ball Valve KITZ Model - 58	
X					Pressure Relief Valve / Pump Casing Relief Valve CLA-VAL Model – 55L-60	
X					Air Release Valve Val-Matic Valve and Manufacturing Corp. Model – 22.9	

REVIEWED BY: Michael R. Whitworth DATE: December 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. 15051-0353

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 11/29/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

Fax;
314-241-2203

RE: Valves for Fire Protection Piping Product
Data

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☒ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	SENT VIA:	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☒ Other: Product Data	☐ Separate Cover Via:	☐ Due Date:

Item	Package	Code	Rev.	Copies	Date	Description	Status
Submittal		210523-002	1		11/29/2016	Valves for Fire Protection Piping Product Data	Submitted

NOTES:

CC:

Signed: _____
Devin Gates