

# SK-23-0244 - Global Impact STEM Academy

572 E. Leffel Lane  
Springfield, Ohio 45505  
United States



Marker, Inc.  
2011 Riverside Dr  
Columbus, Ohio 43221  
United States  
(614) 754-8349

**Title**  
HVAC Circuit Setters

**Submittal Manager**  
Stephen Ford

**Spec Section**  
23 05 23 - General-Duty Valves for HVAC Piping

**Type**  
Product Information

**Number**                      **Rev**  
23 05 23-2                      0

**Description**  
None

Contractor's Stamp

**MARKER**  Reviewed     Reviewed As Noted  
 Rejected             Revise & Resubmit

Andrew Burson                      1.31.2024

By \_\_\_\_\_ Date \_\_\_\_\_

This review is only for general conformance of the project and general compliance. Corrections or comments made during this review does not relieve the Vendor from compliance with the requirements of the plans and specifications. Vendor is responsible for all dimensions and fabrication to be confirmed and correlated at the job site.

Architect's Stamp

**WSA**

NO EXCEPTIONS                       REJECTED  
 EXCEPTIONS NOTED                       SUBMIT SPECIFIED ITEM  
 REVISE AND RESUBMIT                       NOT REVIEWED

Approval is only for general conformance with the design concept of the Project and the information given in the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site; information that pertains solely to the fabrication process or to the means and methods of construction; coordination of the work of all trades; and performing all work in a safe and satisfactory manner. This approval does not modify Contractor's duty to comply with the Contract Documents.

Aleah Springer                      02/22/2024  
WSA STUDIO                      DATE

Engineer's Stamp

APPROVED                       FURNISH AS CORRECTED  
 REJECTED                       REVISE AND RESUBMIT  
 SUBMIT SPECIFIED ITEM

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Modifications or comments made on the shop drawings during this review do not relieve contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

HAWA INCORPORATED  
CONSULTING ENGINEERS

02-21-24                      By TSK  
Date \_\_\_\_\_ By \_\_\_\_\_



## SUBMITTAL DATA

**Project:** Global Impact STEM Academy  
**Bid Category :** HVAC  
**Project No.:** E1152  
**TP Tab No.:** 79  
**Construction Manager:** Marker  
**Architect/Engineer:** WSA/HAWA  
**Submittal For:** HVAC Circuit Setters  
**Specification #:** 23 05 23  
**Manufacturer:** Bell & Gossett  
**Supplier:** Steffens-Shultz

The attached submittal data has been reviewed by TP Mechanical Contractors for compliance with the Architect/Engineer's specifications and plan schedule for this project.

In order to maintain the project schedule, we request that this submittal be returned to TP Mechanical Contractors **within 7 days**.

**NOTE: Material cannot be released without Architect/Engineer's approval of submittal.**

*(Please place stamp of approval here)*

<u>  X  </u>	PRODUCT DATA
<u>      </u>	DRAWINGS
<u>1/16/24</u>	DATE SUBMITTED
<u>      </u>	DATE RESUBMITTED
T. P. MECHANICAL CONTRACTORS	
BY	<u>    Bridget Ellis    </u>
<p>This drawing or brochure has been checked to quality or proper components only. Approval of this drawing or brochure shall not relieve the supplier of responsibility for accuracy or dimensions of full compliance with plans and specifications and purchase order.</p>	

**JOB:** STEM ACADEMY

**REPRESENTATIVE:** STEFFENS SHULTZ INC.

UNIT TAG:

ORDER NUMBER:

DATE:

ENGINEER:

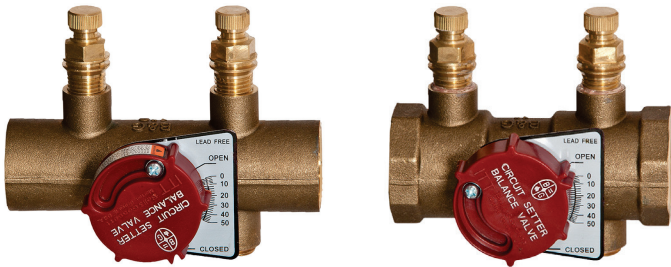
SUBMITTED BY: JASON PLAGEMAN

DATE: 1/16/2024

CONTRACTOR:

APPROVED BY:

DATE:



## Circuit Setter Plus®

Calibrated Balance Valves with NPT and Solder Connections  
**LEAD FREE\***

### CONSTRUCTION

**Body:** Lead-Free Brass\*

**Ball:** 304 Stainless Steel

**Seat Rings:** Glass and Carbon filled TFE

**Readout Valves:** Brass with EPT check valves

**Stem "O" Ring:** EPDM

### MAXIMUM WORKING PRESSURE

**NPT Models:** 400 psig (2758 kPa)

**Sweat Models:** See table below

### MAXIMUM OPERATING TEMPERATURE

-4°F(-20°C) to 250°F(121°C)

\*Contains less than 0.25% lead content by weight on wetted surfaces.

AB1953 and CSA Certified. Vermont 152S, Maryland House Bill

HB.372, Senate Bill S.3874, and NSF-61 Annex G Compliant.

### DESCRIPTION

The Bell & Gossett CIRCUIT SETTER PLUS and CIRCUIT SETTER PLUS "RF" calibrated balance valves are a precision machined ball type triple purpose balancing instrument. They are precisely calibrated for use as a presettable balance valve, variable orifice flow meter and positive shut-off service valve.

Valves are furnished with a calibrated nameplate and memory stop indicator which permits a preset to a fixed open position and then closed for service without disturbing valve setting.

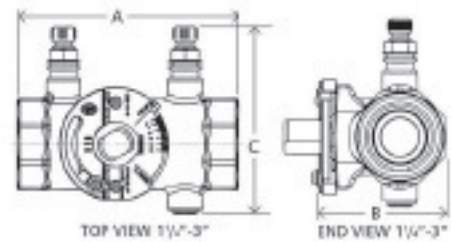
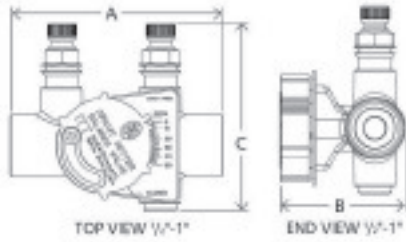
Valves are equipped with capped readout valves fitted with internal check valves and 1/4" NPT tapped and plugged drain port.

**Maximum Pressure Limitations for 1/2"-2" With Solder Connections**

Type Solder	Pressure PSI (KPa)	Temperature °F (°C)
95-5 Tin Antimony	300 (2068)	200 (93)
	250 (1724)	225 (107)
	200 (1379)	250 (121)

### SCHEDULE

Model Number	Tagging Information	Quantity
RF-1/2S LF		
RF-3/4S LF		
CB-1/2S LF		
CB-3/4S LF		
CB-1S LF		
CB-1-1/4S LF		
CB-1-1/2S LF		
CB-2S LF		
CB-1/2 LF		
CB-3/4 LF		
<b>CB-1 LF</b>		
CB-1-1/4 LF		
CB-1-1/2 LF		
CB-2 LF		
CB-2-1/2 LF		
CB-3 LF		



**DIMENSIONS AND WEIGHTS**

Model Number	Size	Connection Type	Dimensions in Inches (MM)			Weight in lbs. (KG)
			A	B	C	
RF-1/2S LF	1/2"	Sweat	2.91 (73.9)	1.82 (46.2)	2.85 (72.4)	0.6 (0.27)
RF-3/4S LF	3/4"	Sweat	3.51 (89.2)	2.05 (52.1)	3.10 (78.7)	0.75 (0.34)
CB-1/2S LF	1/2"	Sweat	2.91 (73.9)	1.82 (46.2)	2.85 (72.4)	1 (0.45)
CB-3/4S LF	3/4"	Sweat	3.51 (89.2)	2.05 (52.1)	3.10 (78.7)	1.25 (0.45)
CB-1S LF	1"	Sweat	4.29 (109)	2.33 (59.2)	3.33 (84.6)	2 (0.9)
CB-1-1/4S LF	1-1/4"	Sweat	4.91 (124.7)	3.08 (78.2)	3.69 (93.7)	3.5 (1.6)
CB-1-1/2S LF	1-1/2"	Sweat	5.21 (132.3)	3.27 (83)	3.95 (100.2)	3.8 (1.7)
CB-2S LF	2"	Sweat	6.31 (160.3)	3.92 (97.4)	4.44 (112.8)	6.2 (2.8)
CB-1/2 LF	1/2"	NPT	2.94 (74.7)	1.98 (50.3)	3.02 (76.7)	1.25 (0.6)
<b>CB-3/4 LF</b>	<b>3/4"</b>	<b>NPT</b>	<b>3.06 (77.7)</b>	<b>2.17 (55.1)</b>	<b>3.12 (79.2)</b>	<b>1.5 (0.7)</b>
CB-1 LF	1"	NPT	3.91 (96.8)	2.47 (62.7)	3.42 (86.9)	2 (0.9)
CB-1-1/4 LF	1-1/4"	NPT	4.41 (112)	3.19 (81)	3.69 (93.7)	3.5 (1.6)
CB-1-1/2 LF	1-1/2"	NPT	4.42 (112.3)	3.37 (85.6)	3.95 (100.2)	3.8 (1.7)
CB-2 LF	2"	NPT	5.13 (130.3)	3.98 (101.1)	4.44 (112.8)	6.2 (2.8)
CB-2-1/2 LF	2-1/2"	NPT	6.00 (152.4)	4.51 (114.6)	4.83 (122.6)	9 (4.1)
CB-3 LF	3"	NPT	6.50 (165.1)	5.12 (130)	5.44 (138.2)	12 (5.4)



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