ARMSTRONG®

CIRCUIT BALANCING VALVES
ANSI FLANGED 125/250 psig
Straight and Angle
Sizes 2½" - 12"

FILE NO:	36.57
DATE:	January 18, 2002
SUPERSEDES:	36.57
DATE:	June 30, 2000

SUBMITTAL

JOB: _____ REPRESENTATIVE: _____

_____ ORDER NO: _____ DATE: _____

ENGINEER: _____ SUBMITTED BY: _____ DATE: _____

CONTRACTOR: _____ APPROVED BY: _____ DATE: : _____

CBV VALVE SCHEDULE

Tag	Qty	Size	Ansi Flange Rating	Configuration		Insulation(Optional) Check If Required		Pump Description
				Straight	Angled	Straight	Angled	
			125 / 250					
			125 / 250					
			125 / 250					
			125 / 250					
			125 / 250					
			125 / 250					
			125 / 250					
			125 / 250					
			125 / 250					
			125 / 250					
			125 / 250					
			125 / 250					

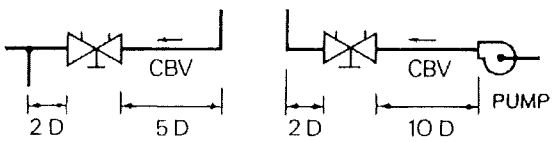
MATERIALS OF CONSTRUCTION

Valve Body	Cast Iron ASTM A48 Class 30B / Ductile Iron ASTM A536 grade 65-42-12
Disc	Bronze (B584-844)
Seat	Ultra - High Strength Engineered Resin
Stem	Brass - ASTM B - 16
Spring	Stainless Steel ASTM A313 Type 302
O-Rings	BUNA (STEM) and EPDM❶ (Body Gasket) ELASTOMERS
Metering Ports (2)	Brass Body with EPDM Check and Gasket Cap
Drain Tapping (2)	¼" NPT with BRASS PLUG
Insulation (Optional)	PVC white Cover with mineral fibreglass insulation which meets or exceeds ASTM D1784 Class 14253-C, MEA #7-87, ASTM E84 and ASTM E136 and flame rating of 25 or less and smoke rating of 50 or less.

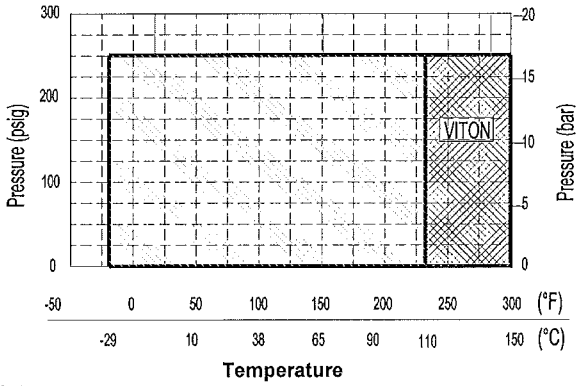
❶ EPDM not suitable for oil service.

INSTALLATION

Generally locate the valve five pipe diameters downstream from a fitting; with two diameters downstream from the balancing valve free from fittings. If a balancing valve is located downstream from a circulation pump, allow a distance of ten (10) diameters between the pump and balancing valves (as illustrated below). To save space, the valve may be used in the angled configuration as an elbow.

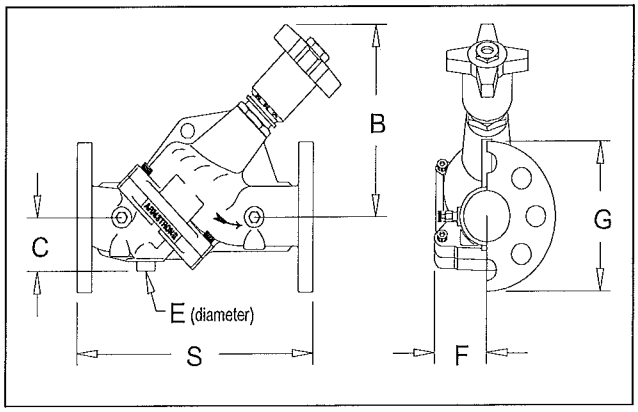


OPERATING PARAMETERS – PRESSURE / TEMPERATURE

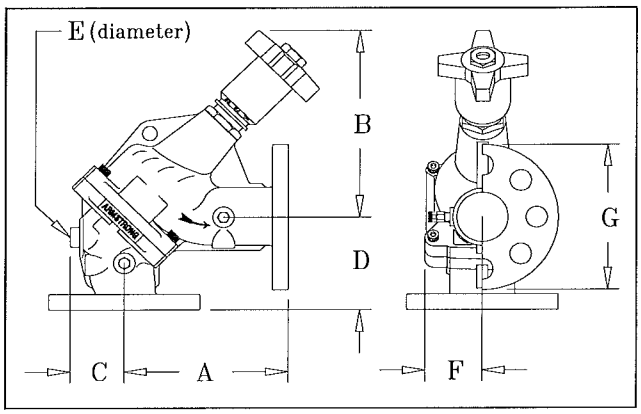


Note: For temperatures from 230°F to 300°F (110°C to 150°C) use Viton Elastomer.

STRAIGHT - MODEL CBV-FS



ANGLE - MODEL CBV-FA



125 psi	DIMENSIONS - inches (mm)							
Connection Size	2.5"	3"	4"	5"	6"	8"	10"	12"
A	7.38 (187)	8.19 (208)	9.63 (245)	12.00 (305)	14.13 (359)	19.00 (483)	20.33 (516)	24.07 (611)
B (Fully Open)	9.62 (244)	10.50 (267)	10.56 (268)	13.06 (332)	13.75 (349)	24.62 (625)	26.50 (673)	28.43 (722)
C	2.75 (70)	2.44 (62)	3.00 (76)	3.63 (92)	4.44 (113)	5.69 (145)	6.56 (167)	7.63 (194)
D	4.63 (118)	3.88 (99)	4.38 (111)	5.50 (140)	6.63 (168)	9.19 (233)	9.78 (248)	14.05 (357)
E	1.00 (25)	1.00 (25)	1.25 (32)	1.25 (32)	2.00 (51)	2.25 (57)	2.25 (57)	2.25 (57)
F	2.56 (65)	3.00 (76)	3.44 (87)	4.94 (125)	5.88 (149)	7.88 (200)	9.47 (241)	12.63 (321)
G	7.00 (178)	7.50 (191)	9.00 (229)	10.00 (254)	11.00 (279)	13.50 (343)	16.00 (406)	19.00 (483)
S	12.00 (305)	12.00 (305)	14.00 (356)	17.50 (445)	20.69 (526)	28.00 (711)	30.01 (762)	38.09 (967)
Weight lbs (kg)	33 (15)	39 (17.7)	59 (26.8)	108 (49)	167 (75.7)	344 (156)	603 (273)	1006 (456)

250 psi	DIMENSIONS - inches (mm)		
Connection Size	8"	10"	12"
A	19.11 (485)	20.33 (516)	24.05 (611)
B (Fully Open)	24.62 (625)	26.50 (673)	28.43 (722)
C	5.69 (145)	6.56 (167)	7.63 (194)
D	9.69 (246)	9.80 (249)	14.03 (356)
E	2.25 (57)	2.25 (57)	2.25 (57)
F	7.88 (200)	9.47 (241)	12.63 (321)
G	15.00 (380)	17.50 (445)	20.50 (521)
S	28.20 (716)	30.01 (762)	38.05 (966)
Weight lbs (kg)	396 (180)	712 (323.6)	1163 (528.6)

Design Data CBV Straight and Angle		
Connection Size	Stem: No. of 360° turns	Max. Working Temp
2.5	5	Standard Material 230°F (110°C)
3	5	
4	6	
5	9	
6	10	
8	12	Viton Material 300°F (150°C)
10	18	
12	28	

Dimensional Tolerance up to +/- 0.125" (3mm)

Armstrong Pumps Inc.
93 East Avenue
North Tonawanda, New York
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Armstrong Darling
2200 Place Transcanadienne
Montreal, Quebec
Canada, H9P 2X5
Tel: (514) 421-2424
Fax: (514) 421-2436

Visit us at www.armstrongpumps.com

ARMSTRONG

FILE NO:	36.511
DATE:	July 9, 2008
SUPERSEDES:	36.511
DATE:	July 21, 2004

ARMflo Circuit Balancing Valves

CBV-VS Solder Style, CBV-VT NPT Threaded, CBV-VB BSP Threaded

SUBMITTAL

JOB: _____ REPRESENTATIVE: _____

ORDER NO: _____ DATE: _____

ENGINEER: _____ SUBMITTED BY: _____ DATE: _____

CONTRACTOR: _____ APPROVED BY: _____ DATE: _____

MODEL NUMBER	QTY REQ'D	IDENTIFICATION	MODEL NUMBER	QTY REQ'D	IDENTIFICATION

TECHNICAL DATA	
Connection	Model CBV-VS - Solder Joint Model CBV-VT - Threaded NPT Model CBV-VB - Threaded BSP
Maximum Working Pressure	300 psi / 20 bar (PN20)
Operating Temperature Range	-4°F to 300°F (-20°C to 150°C)

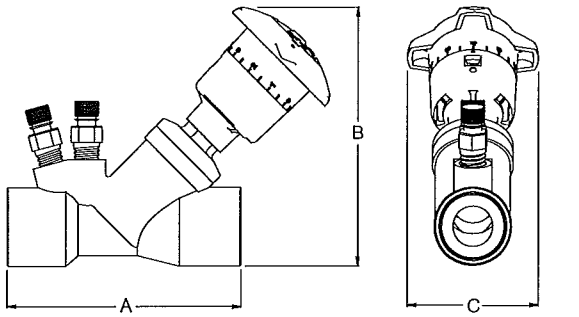
MATERIALS OF CONSTRUCTION	
Body, Bonnet	Brass alloy CW617
Stem and Disk	Brass alloy B16
Elastomers	EPDM
Handwheel	Reinforced Nylon; ABS

DIMENSIONS and WEIGHTS

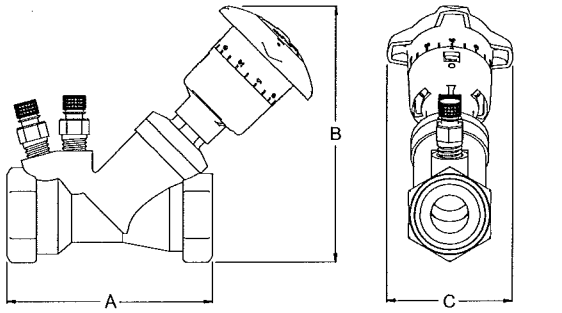
Pipe Size	Model	A	B	C	Weight
Solder Joint Connection					
½" (DN15)	CBV050VS-LF	3.19 (81)	4.56 (116)	2.76 (70)	1.05 (0.48)
	CBV050VS				
¾" (DN20)	CBV075VS-LF	3.64 (93)	4.65 (118)	2.76 (70)	1.09 (0.49)
	CBV075VS				
1" (DN25)	CBV100VS	4.26 (108)	4.95 (126)	2.76 (70)	1.68 (0.76)
1¼" (DN32)	CBV125VS	4.94 (125)	5.40 (137)	2.76 (70)	2.26 (1.03)
1½" (DN40)	CBV150VS	5.67 (144)	5.60 (142)	2.76 (70)	3.22 (1.46)
2" (DN50)	CBV200VS	7.03 (179)	6.36 (162)	2.76 (70)	5.40 (2.45)
Threaded Connection					
½" (DN15)	CBV050VT-LF / VB-LF	2.99 (76)	4.60 (117)	2.76 (70)	1.07 (0.49)
	CBV050VT / VB				
¾" (DN20)	CBV075VT-LF / VB-LF	3.26 (83)	4.90 (125)	2.76 (70)	1.21 (0.55)
	CBV075VT / VB				
1" (DN25)	CBV100VT / VB	3.80 (97)	5.29 (135)	2.76 (70)	1.86 (0.84)
1¼" (DN32)	CBV125VT / VB	4.32 (110)	5.60 (143)	2.76 (70)	2.34 (1.06)
1½" (DN40)	CBV150VT / VB	5.07 (129)	5.90 (150)	2.76 (70)	3.49 (1.59)
2" (DN50)	CBV200VT / VB	6.00 (153)	6.68 (170)	2.76 (70)	5.97 (2.46)

Note: All dimensions are in inches (mm) and weights in lbs (kg)

MODEL: CBV-VS ½" - 2" (DN15 - DN50)



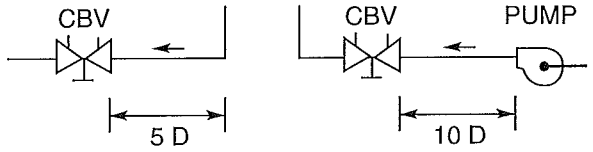
MODEL: CBV-VT / CBV-VB ½" - 2" (DN15 - DN50)



ARMSTRONG

INSTALLATION

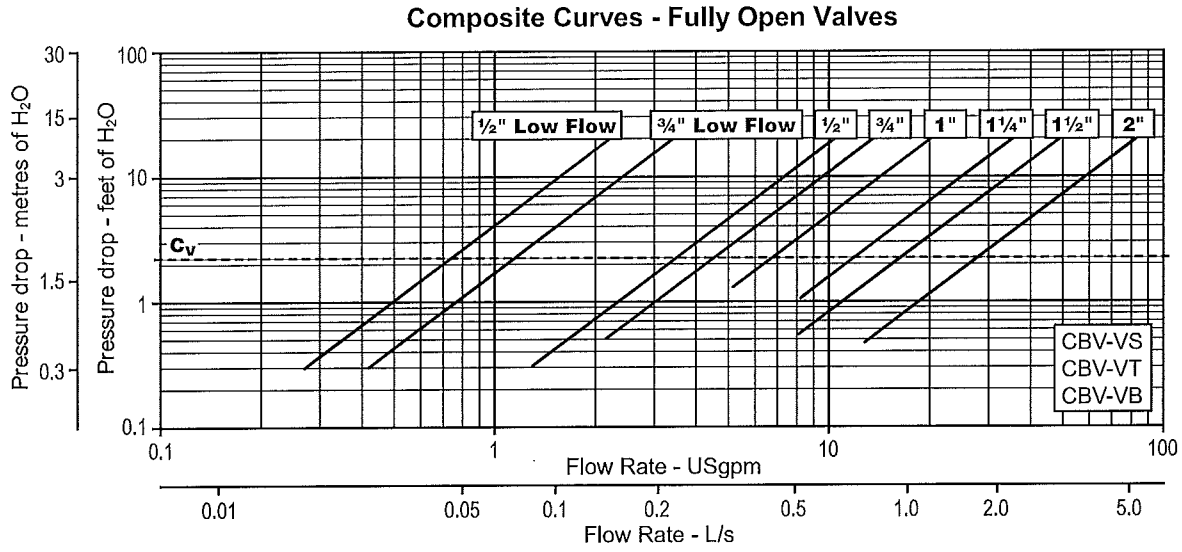
Locate the valve 5 pipe diameters downstream from a fitting. If a balancing valve is located downstream from a circulation pump, allow a distance of 10 pipe diameters between the pump and balancing valves (as illustrated).



NOTES:

1. Solder Style Models - Valve body must be opened at least one full turn prior to being soldered in the line.
2. For valve sizing, refer to CBV range chart, which shows the recommended operation range (dP and flow) for each valve size. For balancing, use Venturi C_v curves or slide rule, which display pressure drop across the Venturi at different flow rates.
3. Suggested differential pressure meters for use with Armstrong CBV's are DPM-15 and DPM-100 digital differential pressure meters and CBDM-135/60 and CBDM-200 analogue meters.
4. All valves furnished with probe metering ports.

RANGE CHART



These curves show the pressure drop across the ARMflo balancing valves and are for use in valve sizing. For "pressure drop / flow" curves required for system balancing, please refer to the Venturi C_v Performance Curves chart in the ARMflo Venturi CBV Installation and Operating Instructions manual.

FLOW RATE RANGES

Valve Size	Min. Flow	Max. Flow
½" Low Flow	0.26 (0.016)	2.2 (0.14)
¾" Low Flow	0.40 (0.025)	3.4 (0.21)
½"	1.4 (0.086)	10.4 (0.66)
¾"	2.1 (0.13)	13.5 (0.85)
1"	5.2 (0.33)	20.2 (1.28)
1¼"	8.2 (0.52)	35.5 (2.24)
1½"	8.1 (0.51)	48.9 (3.09)
2"	14.0 (0.88)	83.3 (5.25)

Note: Flow in USgpm (L/s)

Consult your local ARMSTRONG representative for literature corresponding to valves with "CR" in the model name or embossed on the valve body.

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icon Mechanical

PIPING SPECIFICATION

Rev. A

Date: 5-24-16

				FITTINGS							VALVES							
No.	PIPE SYSTEM	SIZE	PIPE MATERIAL	CONNECTION TYPE	FITTING MATERIAL	UNIONS	JOINT COMPOUNDS	FLANGES	GASKETS	BOLTS AND NUTS	BALL	BUTTERFLY	CHECK	DIAPHRAGM	GATE	GLOBE	PLUG	NOTES
1	CHILLED , HEAT RECOVERY (GLYCOL), AND HEATING WATER	2" and Under	Copper, Type L, (ASTM B88)	Press	Wrought Copper (ASTM B584)	N/A	N/A	N/A	EPDM	N/A	Milwaukee BA-480B		Milwaukee 509-P2		Milwaukee 148	Milwaukee 502		14
													MilwaukeeSilent Check 548T-P2		Apollo 101TLF-PR (threaded)	Apollo 120TLF-PR (threaded)		
													Apollo 163TLF-PR (threaded)					
		2" and Under	Carbon Steel, Sch 40, Electric Resistance Weld ERW, Black (ASTM A53)	Threaded	Malliable Iron, Class 150 (ASTM A47)	Acceptable	TFE Tape	Class 150; Raised Face; Forged Carbon Steel Threaded (ASTM A105)	N/A	N/A	Milwaukee BA-400s		Milwaukee 509Y					1, 14
													Milwaukee Silent Check 548T		Milwaukee 148	Milwaukee 502		
		2-1/2" to 12"	Carbon Steel, Sch 40, Electric Resistance Weld ERW, Black (ASTM A53)	Butt-Weld	Carbon Steel, Sch 40, Seamless, (ASTM A234-WPB)	Flanges	N/A	Class 150; Raised Face; Forged Carbon Steel Weld Neck (ASTM A105)	Garlock 2900	SAE J429 Grade 5 bolts and SAEJ5 Grade 5 Hex	Milwaukee F201CSN2	Milwaukee CL Series (Import)2-12 Figure# CL223E Lever Handle, Figure# CL323E	Milwaukee 2974A (Domestic) 2-12"		Milwaukee 2885M (Import) 2-12";	Milwaukee 2981A (Domestic), 2-10";		1, 14
													Milwaukee 2974M (Import);		Milwaukee 2885A (Domestic) 2-12"	Milwaukee 2981M (Import) 2-10"		
												Milwaukee ML Series (Domestic) 2-12 Figure # ML233E Lever Handle; Figure ML333E Gear Operated	Milwaukee Silent Check Fig # 1800			Armstrong Circuit Balancing Valves		
		2-1/2" to 12"	Carbon Steel, Sch 40, Electric Resistance Weld ERW, Black (ASTM A53)	Grooved	Ductile Iron (ASTM A 536)	N/A	N/A	Flange Adapter Availiable	EPDM	Galvanized Carbon Steel ASTM A 183 and ASTM A 563	Gruvlok Fig # 7500		Milwaukee Silent Check Fig # 1800		Milwaukee 2885M (Import) 2-12";	Milwaukee 2981A (Domestic), 2-10";		1,2, 14
												Gruvlok Fig # 7700	Milwaukee 2974M (Import);		Milwaukee 2885A (Domestic) 2-12"	Milwaukee 2981M (Import) 2-10"		
													Milwaukee 2974A (Domestic) 2-12"					
													Gruvlok Fig # 7800					
2	COOLING COIL DRAINS	2" and Under	Copper, Type M, (ASTM B88)	Press	Wrought Copper (ASTM B584)	N/A	N/A	N/A	EPDM	N/A	Milwaukee BA-480B		Milwaukee 509-P2		Milwaukee 148	Milwaukee 502		1
													MilwaukeeSilent Check 548T-P2		Apollo 101TLF-PR (threaded)	Apollo 120TLF-PR (threaded)		
													Apollo 163TLF-PR (threaded)					
4	REFRIGERANT	2" and Under	Copper, Type ARC, (ASTM B280)	Socket, Brazed	Wrought Copper (ASTM B584)	N/A	Stay-Brite Solder	N/A	N/A	N/A								14
5	MAKEUP WATER; CHEMICAL FEED	2" and Under	Copper, Type L, (ASTM B88)	Press	Wrought Copper (ASTM B584)	N/A	N/A	N/A	EPDM	N/A	Milwaukee BA-480B		Milwaukee 509-P2		Milwaukee 148	Milwaukee 502		1,14
													MilwaukeeSilent Check 548T-P2		Apollo 101TLF-PR (threaded)	Apollo 120TLF-PR (threaded)		
													Apollo 163TLF-PR (threaded)					
7	RELIEF VENTS	2" and Under	Carbon Steel, Sch 40, Electric Resistance Weld ERW, Black (ASTM A53)	Threaded	Malliable Iron, Class 150 (ASTM A47)	Acceptable	TFE Tape	Class 150; Raised Face; Forged Carbon Steel Threaded (ASTM A105)	N/A	N/A								1, 15
		2-1/2" to 12"	Carbon Steel, Sch 40, Electric Resistance Weld ERW, Black (ASTM A53)	Butt-Weld	Carbon Steel, Sch 40, Seamless, (ASTM A234-WPB)	Flanges	N/A	Class 150; Raised Face; Forged Carbon Steel Weld Neck (ASTM A105)	Garlock 2900	SAE J429 Grade 5 bolts and SAEJ5 Grade 5 Hex								1, 15
8	NATURAL GAS	2 1/2" and Under	Carbon Steel, Sch 40, Electric Resistance Weld ERW, Black (ASTM A53)	Threaded	Malliable Iron, Class 150 (ASTM A47)	N/A	N/A	Adapter Available	EPDM	SAE J429 Grade 5 bolts and SAEJ5 Grade 5 Hex	Milwaukee 22CSOR-02-LL						Nordstrum 142	1, 16
											Apollo 80-100 Series							
		3" to 12"	Carbon Steel, Sch 40, Electric Resistance Weld ERW, Black (ASTM A53)	Butt-Weld	Carbon Steel, Sch 40, Seamless, (ASTM A234-WPB)	Flanges	N/A	Class 150; Raised Face; Forged Carbon Steel Weld Neck (ASTM A105)	Garlock 5500	SAE J429 Grade 5 bolts and SAEJ5 Grade 5 Hex	PBV C4510-31-2236-FY-NL						Nordstrum 143	1, 16

NOTES
1. Use flat faced flanges (ASTM A105) in raised face flange piping systems where required for mating with flat faced valves and equipment.
2. Use grooved valves for piping 6" and less or where required based on cost.
3. Only use AGS Victaulic connections for chilled water piping systems over 14". N/A
4. Use 14" and over pipe size grooved piping systems only in low risk location such as basements. N/A
5. Threaded connections allowed where required for equipment connection.
6. Medical gas fittings will be oxygen cleaned, capped and bagged.
7. The maximum operating pressure for PVC pipe is 140°F. The allowable working pressure is reduced by a de-rating factor above 73°F.
8. The maximum operating pressure for CPVC pipe is 200°F. The allowable working pressure is reduced by a de-rating factor above 73°F.
9. The maximum operating pressure for PP pipe is 200°F. The allowable working pressure is reduced by a de-rating factor above 73°F.
10. The maximum operating pressure for HDPE pipe is 140°F. The allowable working pressure is reduced by a de-rating factor above 73°F.
11. Use Solon washers where thermal cycling is a significant issue.
12. Use fire and smoke rated materials for piping in soffits.
13. Use di-electric nipples Gruvlok Figures 7088, 7089 or 7090 to address galvanic action for dissimilar materials.
14. Use silent check valves in pump discharge applications.
15. Relief valves and rupture discs, pressure regulator vents and gas pressure switch vents shall be piped full size of valve outlet to atmosphere outside building. For multiple valve installations common discharge pipe shall have cross-sectional area equal to the sum of the outlet area of the connected valves.
16. Gas piping installed in mechanical room plenums or in ceiling plenums or where concelaed in inaccessible plenums and chases shall have welded joints and fittings and shall not have valves installed within the spaces.

WM TAO & ASSOCIATES
CONSULTING ENGINEERS

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: August 17, 2016

Attention: **stl-cac@cannondesign.com**

Contact Person / WTA Field Inspector: Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Mark Schaefer

Project No. WT 14127.01

☐ UPS ☐ Courier ☒ **Email**

Copies	No.	Description
1 PDF	230600M01	(Submittal No.'s) (R&B CxSRC)
		(Cannon #230600-004) - (Paric #15051-0181) – (WES #607)
		• **HVAC Piping Product Data**

Submittal Review Comments

3 inch and larger elbows shall be long radius as specified in section 230600.

c: **Kelvin Patel**
Kpatel@cannondesign.com

☐ Furnish as Submitted	☒ ***Furnish as Noted**
☐ Rejected	☐ Revise & Resubmit
☐ Reviewed	☐

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.

CANNONDESIGN

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB
PROJECT NAME

8274 BIG BEND BLVD
ADDRESS

NUMBER

WEBSTER UNIVERSITY
OWNER

CANNON DESIGN
ARCHITECT / ENGINEER

Joe Voypick
SUBMITTED BY

230600-004
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

230600
SPECIFICATION SECTION / PARAGRAPH

Icon Mechanical
MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

◯ CRITICAL

ITEM BEING SUBMITTED (check only one)

- ◯ Shop Drawings
- ◯ Samples (_____ copies)
- ◯ LEED Submittal
- ◯ Certification / Qualifications
- ◯ Record Documents
- ◉ Product Data
- ◯ Coordination Drawing
- ◯ Calculations
- ◯ Schedules
- ◯ O&M Manuals
- ◯ Other _____

ITEM BEING SUBMITTED FOR (check only one)

◉ Action ◯ Information Only ◯ Record

REMARKS OR DEVIATIONS

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)

PARIC

PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:
Devin D. Gates

Joe Voypick
REVIEWED BY

8/9/16
DATE

To be completed by Reviewer

23 0600-004
CANNON DESIGN SUBMITTAL NUMBER

8/9/16
RECEIVED DATE

- ◯ A. No Exceptions Taken
  No further review of submittal is required.
- ◯ B. Make Corrections Noted
  Incorporate corrections in work; resubmission is not required.
- ◯ C. Revise and Resubmit
  Revise as noted, and resubmit for review.
- ◯ D. Rejected
  Submittal is not in compliance with Contract Documents; provide new submittal.
- ◯ E. For Record / Information Only
  Submittal was reviewed for Record / Information purposes only.
- ◯ F. Not Required for Review
  Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS ◯ See attached sheet(s) for additional comments

REVIEWED BY

DATE

77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0181

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 08/09/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: HVAC 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		230600-004	1		08/09/2016	HVAC Piping Product Data	Submitted

NOTES:

CC:

Signed: _____
Devin Gates

Mechanical

LETTER OF TRANSMITTAL

TO: Paric Corporation
77 West Port Plaza #250
St. Louis, MO 63146

ATTN: Jason Szachnieski, Devin Gates

DATE: 8/8/16
JOB # : 5768
RE: Webster ISB

We are sending you
( ) Attached ( ) Under separate cover
(X) Shop drawings ( ) Prints ( ) Plans ( ) Samples ( ) Specifications
( ) Copy of letter ( ) Change order ( ) Other

COPIES	DATE	NO.	DESCRIPTION
1	8/8/16	230600	Piping

These are transmitted as checked below:

( ) For signature ( ) Approved as submitted ( ) Resubmit ( ) copies for approval
( ) For your use ( ) Approved as noted (X) Submit ( ) copies for distribution
( ) As requested ( ) Returned for corrections ( ) Return ( ) corrected prints
( ) For bids due ( ) Prints returned after loan to us
(X) For review and comment ( ) Other

Remarks: Please return by 8/18/16

COPY TO: file

SIGNED: Alex Chambers

Webster University ISB
Webster Groves, MO

Submittal #:	230600
Submittal Description:	Piping
Return By:	8/18/16

Please Note: To avoid scheduling delays and equipment release delays, please submit by the "Return By" date.

CHECKED BY:

DESIGNER: ENGINEER:

X	NO EXCEPTION TAKEN		MAKE CORRECTIONS NOTED
	SUBMIT SPECIFIED ITEM		REVISE AND RESUBMIT
	REJECTED		

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Equipment supplier is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and satisfactory performance of his work.

Job #:	5768
Date:	8/8/16
By:	ARC