

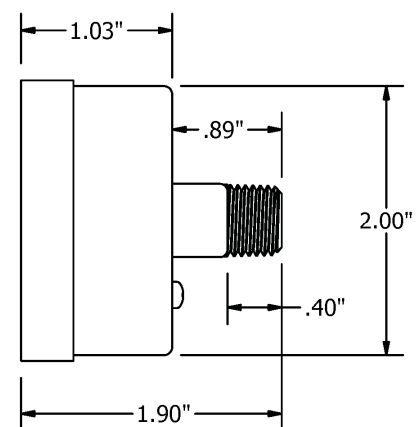
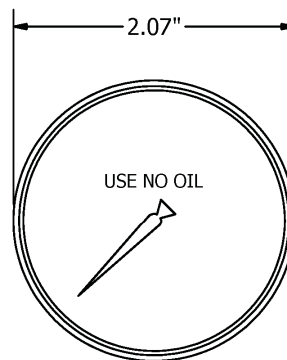
2" Back Mounted Gauge, O2 Cleaned

General Specifications:

- Use No Oil Gauge, O2 cleaned with Copper Alloy Internals and NPT connection
- The gauges shall be with dual scale psi and kPa for pressure and Hg and kPa for vacuum
- The connection shall be a 1/8" Male NPT Center Back mount
- Design meets or exceeds ASME B40.100 pressure gauge standard

Features:

- **Size:** 2"
- **Accuracy:** 3-2-3 % of Span
ASME B40.1 Grade B
- **Range:** 0-30" Vac [-200-0kPa]
0-100 psi [0-700kPa]
0-300 psi [0-2000kPa]
- **Temperature:** Ambient: 50 F to 160 F
Media: Max 140F
- **Connection:** 1/8" Male NPT Center Back
- **Bourdon Tube:** Phosphor Bronze
- **Movement:** Copper Alloy
- **Dial:** White Plastic with Stop pin
- **Pointer:** Black Aluminum
- **Case:** Black painted steel w/ Aluminum Bezel
- **Window:** Plastic, Twist on



Part Number	Psi/kPa
PM-GA2-300	0-300 psi
PM-GA2-100	0-100 psi
PM-GA2-VAC	0-30" Hg

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: November 4, 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	226313P01	(Submittal No.'s)
		(Cannon #226313-008) - (Paric #15051-0285) – (WES #607)
		➤ Gas Piping Accessories (Vacuum Piping for Lab Facilities)

***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: **November 03, 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 – 226313 Vacuum Piping for Laboratory Facilities	1	11-03-2016

•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 ISB

LOCATION: St. Louis Missouri

CLIENT PROJ. No.: N/A

WES PROJ. No.: 607

226313

Gas Piping for

SPEC SECTION: Gas Piping for Laboratory Facilities

SUBMITTAL ITEM:: See Below -

CONTRACTOR: ICON Mechanical.

CTR. SUBMITTAL # 22 6313-008

SUBMITTAL DATE: October 12, 2016

DATE RECEIVED: October 14, 2016

RECEIVED VIA: E-Mail

RECEIVED FROM: WTA

DATE RETURNED: NOVEMBER 03, 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
Patton's Medical is not listed in the project manual as an acceptable / alternate manufacturer to the basis of design. Review of their products in this submittal does indicates they are comparable to the basis of design						
X					Zone Valve Box Patton's Medical ZVN 050505050507	
X					Back Mounted Gauges Patton's Medical PM-GA2-300, PM-GA2-100, PM-GA2-VAC	
	X				Wall Outlets and Inlets Patton's Medical D.I.S.S. Type	1. Verify finish of wall plates with Architect prior to ordering.
X					Medical Isolation Valves Patton's Medical 3-Piece Ball Valve	
X					General Purpose Regulator Patton's Medical REG-G-LP-05, REG-G-LP-05	
X					Header Bar Accessories Misc. Fittings and Hardware	

REVIEWED BY: Michael R. Whitworth

DATE: November 03, 2016

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

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

PROJECT NAME	
ADDRESS	
NUMBER	
OWNER	
ARCHITECT / ENGINEER	
SUBMITTED BY	
CONTRACTOR / CM SUBMITTAL NO.	CANNON DESIGN SUBMITTAL NO.
DRAWING / DETAIL REFERENCE	SPECIFICATION SECTION / PARAGRAPH
MANUFACTURER / SUPPLIER	ITEM / PRODUCT ID
REQUIRED DATE	PRIORITY
CRITICAL	☐

To be completed by Reviewer

CANNON DESIGN SUBMITTAL NUMBER
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.

ITEM BEING SUBMITTED (check only one)

- ☐ Shop Drawings ☐ Certification / Qualifications ☐ Coordination Drawing
☐ Samples ☐ Record Documents ☐ Calculations
 (_____ copies) ☐ Product Data ☐ Schedules
☐ LEED Submittal ☐ 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 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.

Ry:

Devin D. Gates

REVIEWED BY	DATE

A/E COMMENTS

- ☐
- See attached sheet(s) for additional comments

REVIEWED BY	DATE



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0285

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 10/13/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Gas Piping Accessories 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		226313-008	1		10/13/2016	Gas Piping Accessories 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: 10/12/16

JOB #: 5768

RE: Webster ISB

We are sending you

☒

Shop drawings

☐ Attached

☐ Prints

☐ Under separate cover

☐ Plans

☐ Samples

☐ Specifications

☐ Copy of letter

☐ Change order

☐ Other

COPIES	DATE	NO.	DESCRIPTION
1	10/12/16	236313	Laboratory Gas Piping Accessories

These are transmitted as checked below:

☐ For signature

☐ For your use

☐ As requested

☐ For bids due

☒

For review and comment

☐ Approved as submitted

☐ Approved as noted

☐ Returned for corrections

☐ Prints returned after loan to us

☐ Other

☐ Resubmit

☒ Submit

☐ Return

☐ copies for approval

☐ copies for distribution

☐ corrected prints

Remarks: Please return by 10/25/16

COPY TO: file

SIGNED:

Alex Chambers



Mechanical

Webster University ISB Webster Groves, MO

Submittal #:

226313

Submittal Description:

Laboratory Gas Piping Accessories

Return By:

10/25/16

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

CHECKED BY:			
DESIGNER:		ENGINEER:	
☒	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:	10/12/16
		By:	ARC