Wall Outlets

General Specifications:

The medical gas wall outlet shall be Patton's Medical O1 series. The outlet shall be UL® Listed, NFPA® 99 compliant cleaned for medical gas service and be pressure tested. Each outlet shall have less than 3 psi (21 kPa) pressure drop through the outlet @ 120 L/min, and 50 psi (345 kPa) inlet pressure. For outlets providing positive pressure gas, the outlet shall be equipped with a primary and secondary check valve, the secondary check valve shall be rated for 200 psi (1,379 kPa) allowing the primary check valve to be removed for service without isolating the entire zone.

The wall outlets shall have a gas specific back body with steel mounting plate, which allows outlets to be ganged together with a center-line spacing of 5" (125). Each back body shall be equipped with a 6-1/2" (165 mm) length type "k" copper pipe stub which is brazed to the outlet body. The outside diameter of the copper pipe stub shall be 1/2" (12.7 mm). The inlet pipe can be swiveled 360 degrees to ease installation.

Outlet bodies shall be gas specific by means of a gas specific indexing pin arrangement. The indexing pins shall be arranged in such a way as to connect the latch-valve assembly only with the specific matching gas back body, preventing interchangeability of gas services.

The latch-valve assembly, which by means of color coding and wording shall identify the specific medical gas service provided by the outlet and shall accept gas specific adapters.

For aesthetic appeal each outlet shall include a one piece gray trim plate. The trim plate shall be constructed of high impact, Cycoloy®, Chrome or Satin finish.

The wall outlet can accommodate various finished wall thicknesses from 3/8" (10) to 1-1/4" (32). Equipment is manufactured in an ISO® 9001 registered facility.

Features:

- Accepts Chemetron®, Ohmeda, Puritan Bennett® and DISS specific adapters
- Pin indexed to prevent interchangeability of gas service
- Each outlet is cleaned for medical gas service and pressure tested
- Less than 3 psi (21 kPa) pressure drop though the outlet at 120 L/min and 50 psi (345 kPa) inlet pressure
- Inlet pipe can be swiveled 360 degrees for ease of installation
- Gas specific back bodies can accept either Quick Connect or DISS front identification bodies
- Outlets can be adjusted up to 3/4" (19 mm) in mounting plate thickness
- Adapters are available from Patton's Medical
- Outlets are also available for M.R.I. use

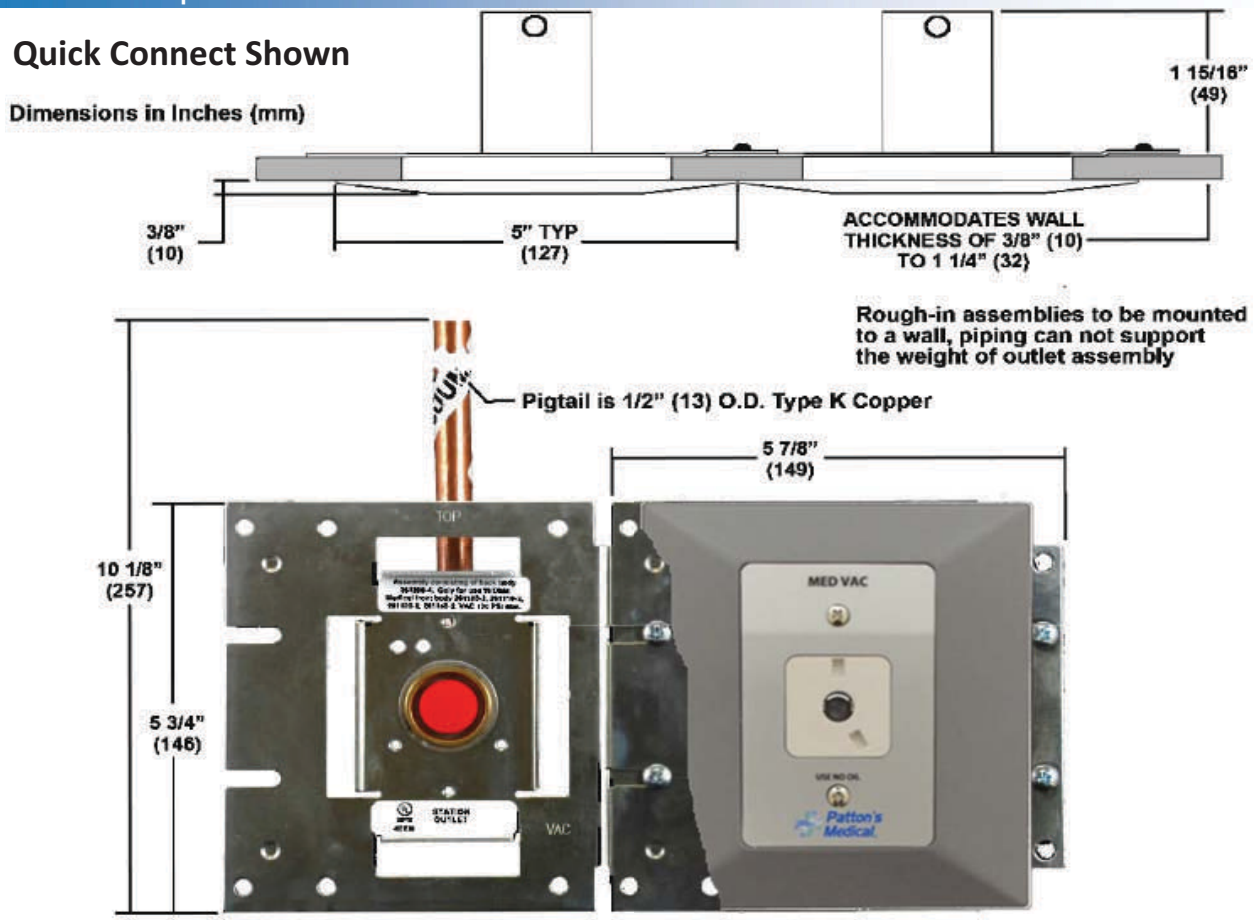
Verify finish of wall plates with Architect prior to ordering.

Ohmeda Type | **DISS Type** | **Chemetron Type** | **Puritan Bennett Type**

Technical Specifications:

Quick Connect Shown

Dimensions in Inches (mm)



Model Numbers

O1-XXWAL-XXX-X

Example: D.I.S.S Wall Air NFPA = O1-DIWAL-AIR-N

The Letter "XX" Defines the Type:

D.I.S.S	= DI
Ohmeda	= QD
Chemerton	= CH
Puritan Bennett	= PB

The Letter "XXX" Defines the Type:

Wall Outlet	= WAL

The Letter "X" Defines the Type:

Cycoloy	= N
Chrome	= C
Satin	= S

The Letter "XXX" Defines the Type of Gases:

Oxygen	= OXY
Medical Air	= AIR
MedVac	= VAC
Nitrous Oxide	= N2O
Nitrogen	= NIT
Carbon Dioxide	= CO2
WAGD (NFPA)	= WAG
Instrument Air (DISS Only)	= IA

M.R.I. Model Numbers

~~O1-XXWALM-XXX-X~~

Example: D.I.S.S Wall Air NFPA (M.R.I.) = O1-DIWALM-AIR-N

~~M = M.R.I. Compatible~~

WM TAO & ASSOCIATES
CONSULTING ENGINEERS

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 [X] **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 Enginnering.

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

[X] ***Reviewed**

[X] ***No Exceptions Taken**

[ ]

[X] ***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.

WEBB
ENGINEERING
SERVICES INC.

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

WES
WEBB ENGINEERING SERVICES INC.
1400 S. 3rd Street, Suite 201 • St. Louis, Missouri 63104 • 314.588.0600 • *fax* 314.588.0604
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 ISB
LOCATION: St. Louis Missouri
CLIENT PROJ. No.: N/A
WES PROJ. No.: 607
SPEC SECTION: 226313 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.

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

226313-008
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

226313
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

10/13/16
DATE

To be completed by Reviewer

22 6313-008
CANNON DESIGN SUBMITTAL NUMBER

10/14/16
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. 15051-0285

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
[ ] Attached [ ] Under separate cover
[X] Shop drawings [ ] Prints [ ] 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 [ ] 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 10/25/16

COPY TO: file

SIGNED: Alex Chambers

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:

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:	10/12/16
By:	ARC