

## Series B Medical Gas Outlet DISS Key Style

### SPECIFICATION

The DISS Medical Gas wall outlets are gas specific for the services indicated and accept only corresponding DISS nuts and nipples. The outlets are UL listed, CSA certified, and fully compliant with the latest edition of CSA Z7396-1. All outlets are 100% tested for flow, leaks and connector attachment. The outlets are cleaned for oxygen service in the manufacturing process.

#### Outlet Design

A complete medical gas outlet consists of a gas specific rough in assembly for installation before the wall or console finish is completed. Then a matching gas specific latch valve assembly and trim plate is installed after the finish is complete.

#### Rough-in Assembly

The rough in assembly is of modular design and includes a gas specific 16 gauge steel mounting plate. Wall versions permit on-site ganging of multiple outlets, in any order, with 12.7 cm (5") centerline spacing. A 9.5 mm (3/8") high metal flange around the outlet opening provides a plaster flange. A temporary cover is provided to keep debris out of the outlet during installation. Console rough ins fit standard electrical box cutouts and screw locations.

A machined brass outlet block is permanently attached to the rough in plate to permit the 1/2" OD (3/8" nominal), type K

copper inlet tube to swivel 360° for attachment to the piping system. Gas service identification is affixed to the inlet tube and the face of the rough in plate. A secondary valve is installed in the outlet block of the rough-in assembly (except vacuum and AGSS) for both pressure testing and preventing gas flow when the latch valve assembly is removed for service. The outlet block contains a double seal to prevent gas leakage between the rough in and latch valve assemblies after the wall is finished. Outlets using a single O-ring seal are not acceptable.

#### Latch Valve Assembly

The latch valve assembly includes a captured gto-ring seal primary valve, is gas specific for the labeled service, and accepts only corresponding hose and apparatus with DISS nut and nipple adapters. The latch valve assembly is indexed to the corresponding rough in assembly to avoid accidental cross connection and self adjusts up to 1.9 cm (3/4") to allow for variation in finished wall thickness from 12.5 mm (1/2") up to 3.175 cm (1 1/4").

#### Trim Options

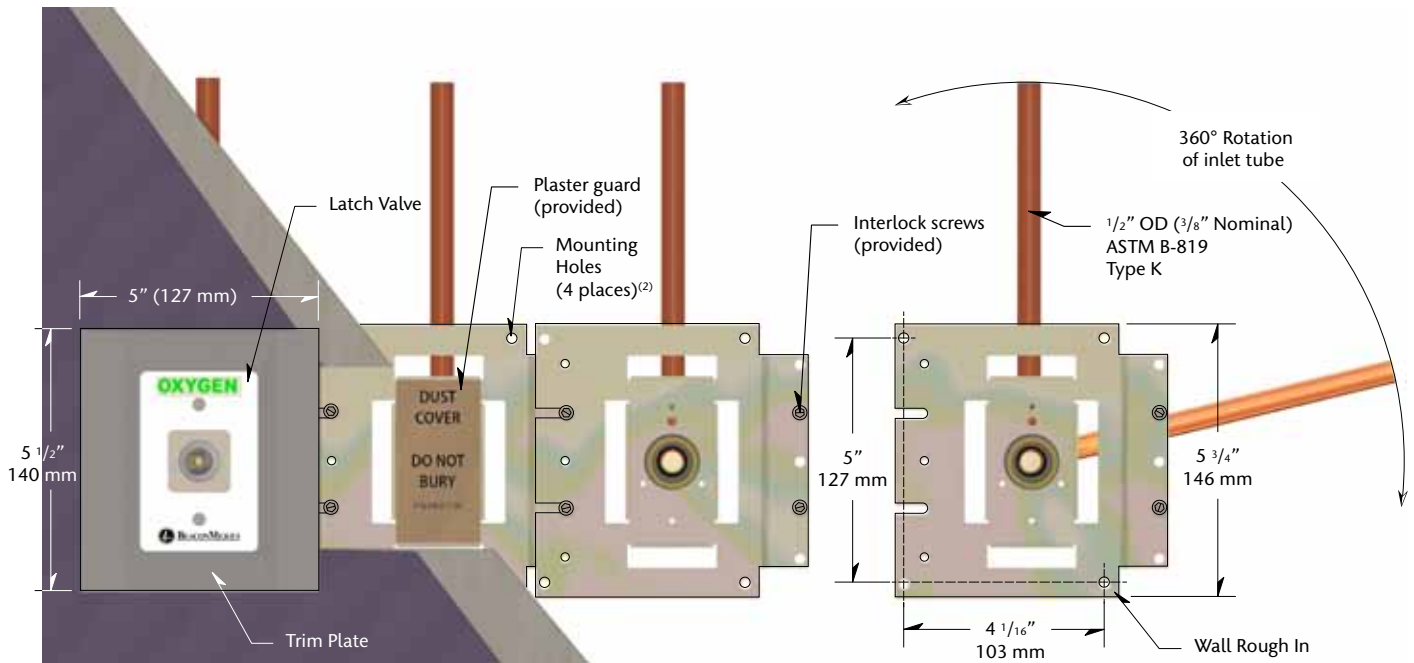
Either a die cast, light gray, epoxy powder-coated trim plate or a smaller plastic trim plate can be provided to trim each outlet. The die cast plate is designed specifically to and to fill the space between adjacent outlets. Either trim plate allows latch valves to be individually removed for servicing.

**DISS Outlets** (Note that a typical complete outlet consists of one Rough In, one matching Latch Valve and one Trim Plate)

Gas Service	Rough-in Assembly, Wall	Rough-in Assembly, Console	Latch-Valve Assembly
Oxygen	<input type="checkbox"/> 233110-00	<input type="checkbox"/> 233010-00	<input type="checkbox"/> 230910-00
Nitrous Oxide	<input type="checkbox"/> 233111-00	<input type="checkbox"/> 233011-00	<input type="checkbox"/> 230911-00
Medical Air (ISO)	<input type="checkbox"/> 233116-00	<input type="checkbox"/> 233016-00	<input type="checkbox"/> 230917-00
Vacuum (ISO)	<input type="checkbox"/> 233117-00	<input type="checkbox"/> 233017-00	<input type="checkbox"/> 230918-00
Nitrogen	<input type="checkbox"/> 233114-00	<input type="checkbox"/> 233014-00	<input type="checkbox"/> 230914-00
Instrument Air (ISO)	<input type="checkbox"/> 233126-00	<input type="checkbox"/> 233033-00	<input type="checkbox"/> 230926-00
AGSS	<input type="checkbox"/> 233132-00	<input type="checkbox"/> 233032-00	<input type="checkbox"/> 230925-00
Carbon Dioxide	<input type="checkbox"/> 233120-00	<input type="checkbox"/> 233020-00	<input type="checkbox"/> 230920-00
CO <sub>2</sub> -O <sub>2</sub> (CO <sub>2</sub> > 7%)	<input type="checkbox"/> 233121-00	<input type="checkbox"/> 233021-00	<input type="checkbox"/> 230921-00
O <sub>2</sub> -CO <sub>2</sub> (CO <sub>2</sub> < 7%)	<input type="checkbox"/> 233122-00	<input type="checkbox"/> 233022-00	<input type="checkbox"/> 230922-00
He-O <sub>2</sub> (He > 80%)	<input type="checkbox"/> 233123-00	<input type="checkbox"/> 233023-00	<input type="checkbox"/> 230923-00
O <sub>2</sub> -He (He < 80%)	<input type="checkbox"/> 233124-00	<input type="checkbox"/> 233024-00	<input type="checkbox"/> 230924-00

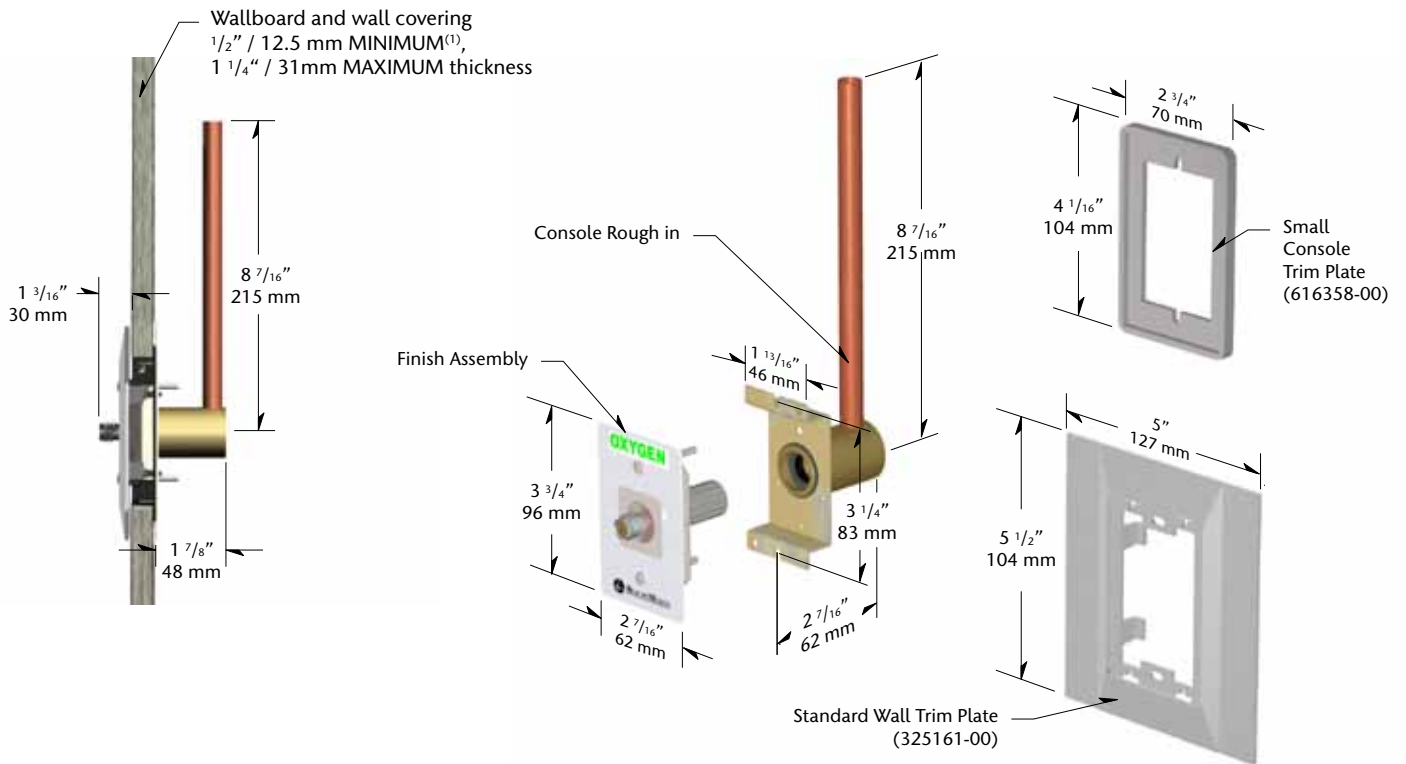
<b>Accessories</b> (Note good design provides one slide with each vacuum)			
Slide (Wall outlet style, Complete)	<input type="checkbox"/> 120978-00	Duplex Electrical Receptacle (Gray 15A, 125V, Wall outlet style, Complete)	<input type="checkbox"/> 120972-00
Slide (Surface mount style)	<input type="checkbox"/> 135012-00	WALL (Large) Style Trim Plate	<input type="checkbox"/> 325161-00
Blank, Gas (Complete with RI and finish)	<input type="checkbox"/> 120979-00	CONSOLE (Small) Style Trim Plate	<input type="checkbox"/> 616358-00

**Dimensions and Installation**



<sup>(1)</sup> When wallboard is less than 1/2" / 12.5 mm thick, as in consoles and headwalls, console outlets should be considered.

<sup>(2)</sup> Plates may gang together in any length. Up to three may be ganged without additional support, however, top and bottom support is always recommended. Total finished length will be 5"/127 mm x number of outlets in the gang (e.g. three outlets = 5 x 3 = 15")



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## Series B Recessed Medical Gas Ceiling Outlet With Rear Entry Tube

### DISS Key Style

### SPECIFICATION

The DISS Medical Gas ceiling outlets shall be gas specific for the services indicated and accept only corresponding DISS nuts and nipples. The outlets shall be UL listed, and CSA certified. All outlets shall be 100% tested for flow, leaks, and connector attachment. The outlets shall be cleaned for oxygen service and capped prior to shipping. A die cast, light gray, epoxy powder coated trim plate can be provided to trim each wall outlet and to fill the space between adjacent outlets. The trim plate shall allow latch valves to be individually removed for servicing.

#### Outlet Design

A complete medical gas outlet shall consist of a gas-specific rough-in assembly for installation before the ceiling is finished and a matching gas-specific latch-valve assembly and cover plate for installation after the ceiling is finished.

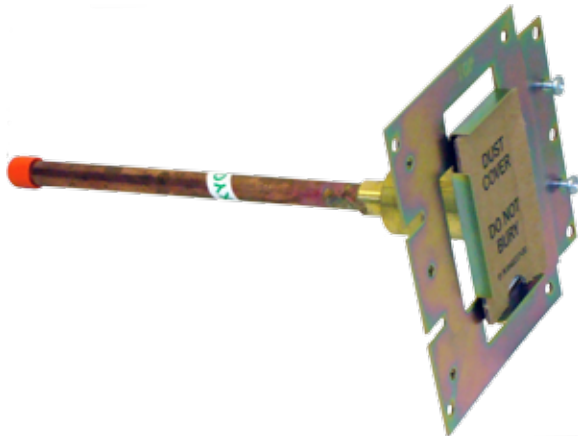
#### Rough-in Assembly

The rough-in assembly shall be of a modular design and include a gas-specific 16-gauge steel mounting plate designed to permit on-site ganging of multiple outlets, in any order, on 127 mm (5") centerline spacing. The gas inlet of the outlet body shall be ½" OD (¾" nominal) B-819 copper tube, pre-brazed to the outlet body. Gas service identification shall be affixed to the inlet tube and the face of the mounting plate.

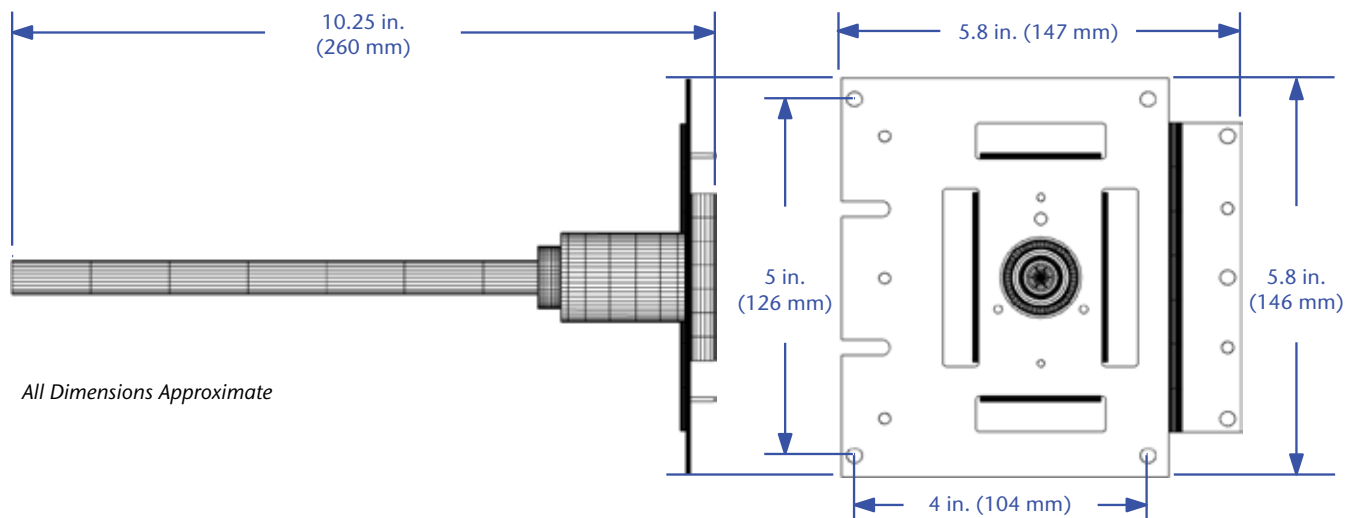
A secondary valve shall be included in the outlet block of the rough-in assembly for both pressure testing and preventing gas flow (except vacuum and AGSS) when the latch valve is removed for service. A 9.5 mm (¾") high metal flange around the outlet opening shall provide a plaster barrier. A temporary cover shall be provided to keep debris out of the outlet during installation. The rough-in assembly shall contain a double seal to prevent gas leakage between the rough-in and latch valve assemblies after the ceiling is finished. A single o-ring seal shall not be acceptable.

#### Latch Valve Assembly

The latch-valve assembly shall include an o-ring seal primary valve, be gas specific for the labeled service, and accept only corresponding hose and apparatus with DISS nut and nipple adapters. The latch-valve assembly shall be indexed to the corresponding rough-in assembly to avoid accidental cross-connection and shall telescope up to 19mm (¾") to allow for variation in finished wall thickness from 12 mm (½") up to 31 mm (1-¼"). A metal cover plate insert with permanent, color-coded marking of service identification shall be included as part of the latch-valve assembly.



#### Reference Dimensions

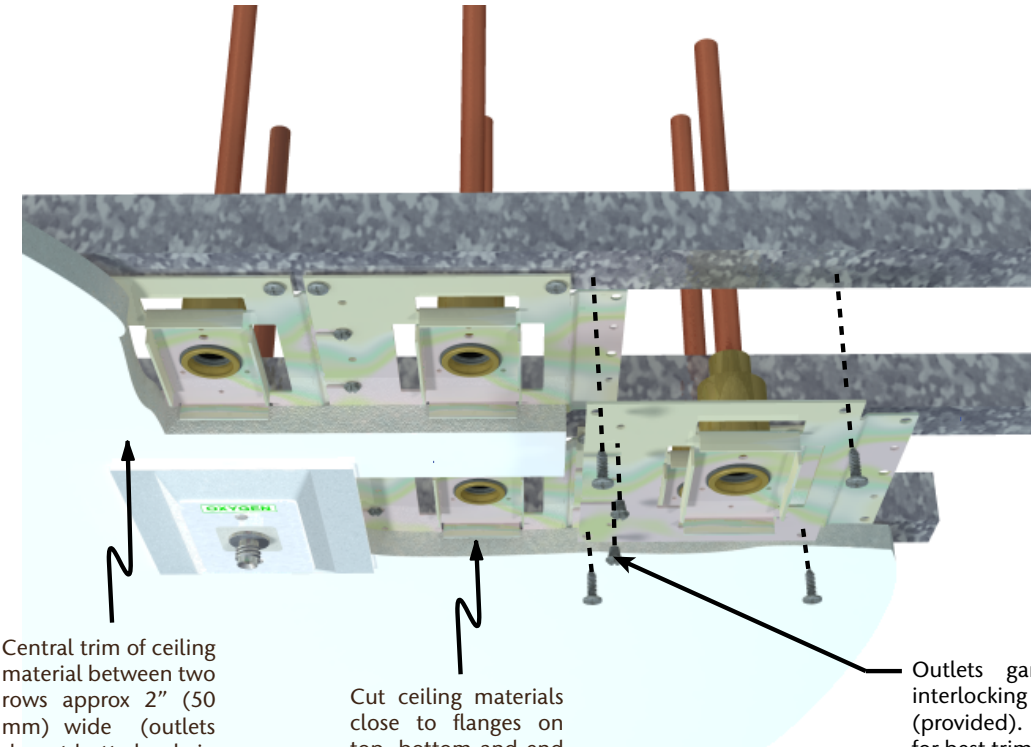


Concealed Ceiling Outlet

Item	Gas Service	Complete Assembly	Rough-in Assembly (Rear Tube)	Latch-Valve Assembly (DISS)
Series B DISS	O <sub>2</sub>	4107 2092 69	233710-00	230910-00
	N <sub>2</sub> O	4107 2092 70	233711-00	230911-00
	AIR - ISO	4107 2092 81	233716-00	230917-00
	VAC - ISO	4107 2092 82	233717-00	230918-00
	N <sub>2</sub>	4107 2092 73	233714-00	230914-00
	AGSS	4107 2132 98	233736-00	230925-00
	CO <sub>2</sub>	4107 2092 76	233720-00	230920-00
	CO <sub>2</sub> -O <sub>2</sub> (CO <sub>2</sub> >7%)	4107 2092 77	233721-00	230921-00
	O <sub>2</sub> -CO <sub>2</sub> (CO <sub>2</sub> <7%)	4107 2092 78	233722-00	230922-00
	HE-O <sub>2</sub> (HE>80%)	4107 2092 79	233723-00	230923-00
	O <sub>2</sub> -HE (HE<80%)	4107 2092 80	233724-00	230924-00
Miscellaneous	Blank, Gas	120979-00		
	Trim Plate (5")	325161-00		

Note: Complete assembly includes rough-in assembly, latch-valve assembly and a trim plate.

**Recommended Installation Method**



Use 1 1/4" (32mm) square or "U" channel for support. Brace solidly or suspend from deck. Space parallel rows 5 3/4" (146 mm) centerline to centerline. Outlet plates must be secured to supports top and bottom (4 places).

Central trim of ceiling material between two rows approx 2" (50 mm) wide (outlets do not butt closely in parallel rows).

Cut ceiling materials close to flanges on top, bottom and end of rows.

Outlets gang together with interlocking flanges and screws (provided). Fit together tightly for best trim.

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## Series B Medical Gas Outlet Latch Key (NCG/Chemetron Style) Style

### SPECIFICATION

#### Latch Key Medical Gas Outlet

The latch key medical gas outlets are gas specific for the services indicated and accept only corresponding latch-keyed adapters. The outlets are UL listed, CSA certified, and fully compliant with the latest edition of CSA Z7396-1. All outlets are 100% tested for flow, leaks and connector attachment. The outlets are cleaned for oxygen service in the manufacturing process.

#### Outlet Design

A complete medical gas outlet consists of a gas specific rough in assembly for installation before the wall or console finish is completed. Then a matching gas specific latch valve assembly and trim plate is installed after the finish is complete.

#### Rough-in Assembly

The rough in assembly is of modular design and includes a gas specific 16 gauge steel mounting plate. Wall versions permit on-site ganging of multiple outlets, in any order, with 12.7 cm (5") centerline spacing. A 9.5 mm (3/8") high metal flange around the outlet opening provides a plaster flange. A temporary cover is provided to keep debris out of the outlet during installation. Console rough ins fit standard electrical box cutouts and screw locations.

A machined brass outlet block is permanently attached to the rough in plate to permit the 1/2" OD (3/8" nominal), type K copper inlet tube to swivel 360° for attachment to the piping system. Gas service identification is affixed to the inlet tube and the face of

the rough in plate. A secondary valve is installed in the outlet block of the rough-in assembly (except vacuum) for both pressure testing and preventing gas flow when the latch valve assembly is removed for service. The outlet block contains a double seal to prevent gas leakage between the rough in and latch valve assemblies after the wall is finished. Outlets using a single O-ring seal are not acceptable.

#### Latch Valve Assembly

The latch valve assembly includes a captured o-ring seal primary valve, is gas specific for the labeled service, and accepts only corresponding hose and apparatus with corresponding latch-keyed adapters. The latch valve assembly is indexed to the corresponding rough in assembly to avoid accidental cross connection and self adjusts up to 1.9 cm (3/4") to allow for variation in finished wall thickness from 12.5 mm (1/2") up to 3.175 cm (1 1/4").

#### Trim Options

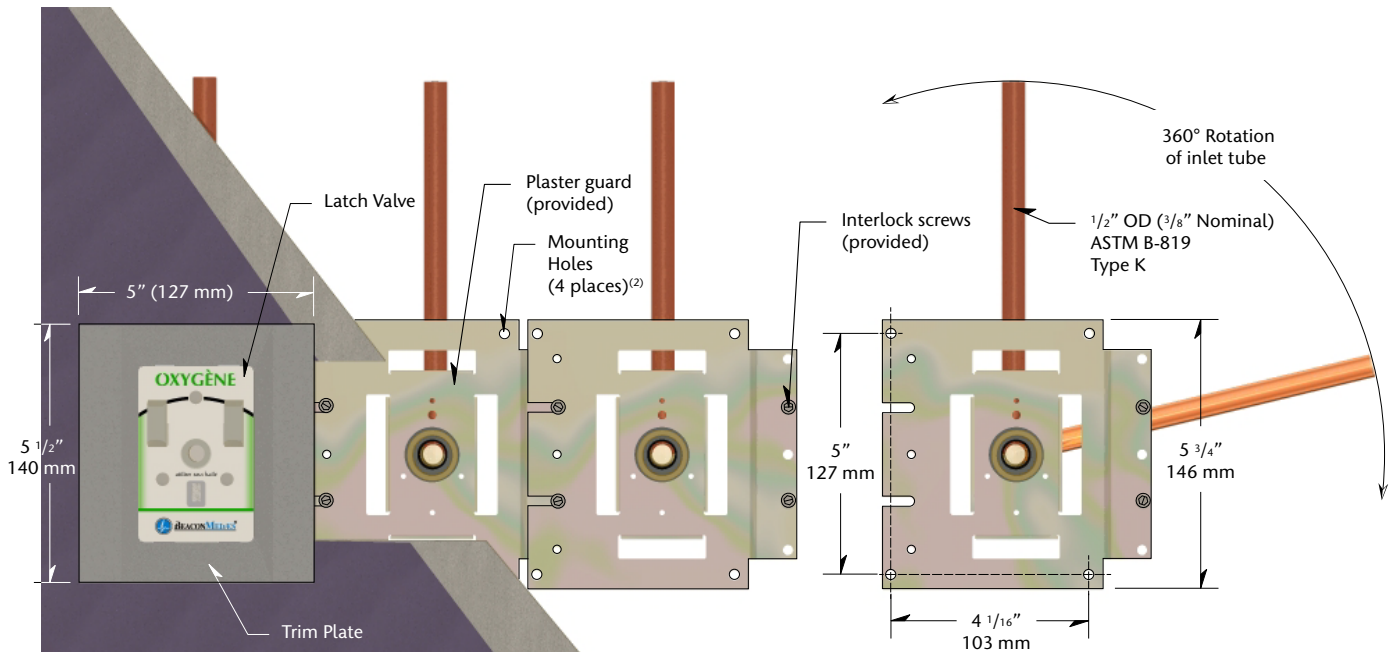
Either a die cast, light gray, epoxy powder-coated trim plate or a smaller plastic trim plate can be provided to trim each outlet. The die cast plate is designed specifically to and to fill the space between adjacent outlets. Either trim plate allows latch valves to be individually removed for servicing.

<b>Latch Key Outlets</b> <i>(Note that a typical complete outlet consists of one Rough In, one matching Latch Valve and one Trim Plate)</i>			
Gas Service	Rough-in Assembly, Wall	Rough-in Assembly, Console	Latch-Valve Assembly
Oxygen	<input type="checkbox"/> 233110-00	<input type="checkbox"/> 233010-00	<input type="checkbox"/> 2330950-00
Nitrous Oxide	<input type="checkbox"/> 233111-00	<input type="checkbox"/> 233011-00	<input type="checkbox"/> 2330951-00
Medical Air (ISO)	<input type="checkbox"/> 233116-00	<input type="checkbox"/> 233016-00	<input type="checkbox"/> 2330957-00
Vacuum (ISO)	<input type="checkbox"/> 233117-00	<input type="checkbox"/> 233017-00	<input type="checkbox"/> 2330958-00

<b>Accessories</b> <i>(Note good design provides one slide with each vacuum)</i>			
Slide (Wall outlet style, Complete)	<input type="checkbox"/> 120978-00	Duplex Electrical Receptacle (Gray 15A, 125V, Wall outlet style, Complete)	<input type="checkbox"/> 120972-00
Slide (Surface mount style)	<input type="checkbox"/> 135012-00	WALL (Large) Style Trim Plate	<input type="checkbox"/> 325161-00
Blank, Gas (Complete with RI and finish)	<input type="checkbox"/> 120979-00	CONSOLE (Small) Style Trim Plate	<input type="checkbox"/> 616358-00

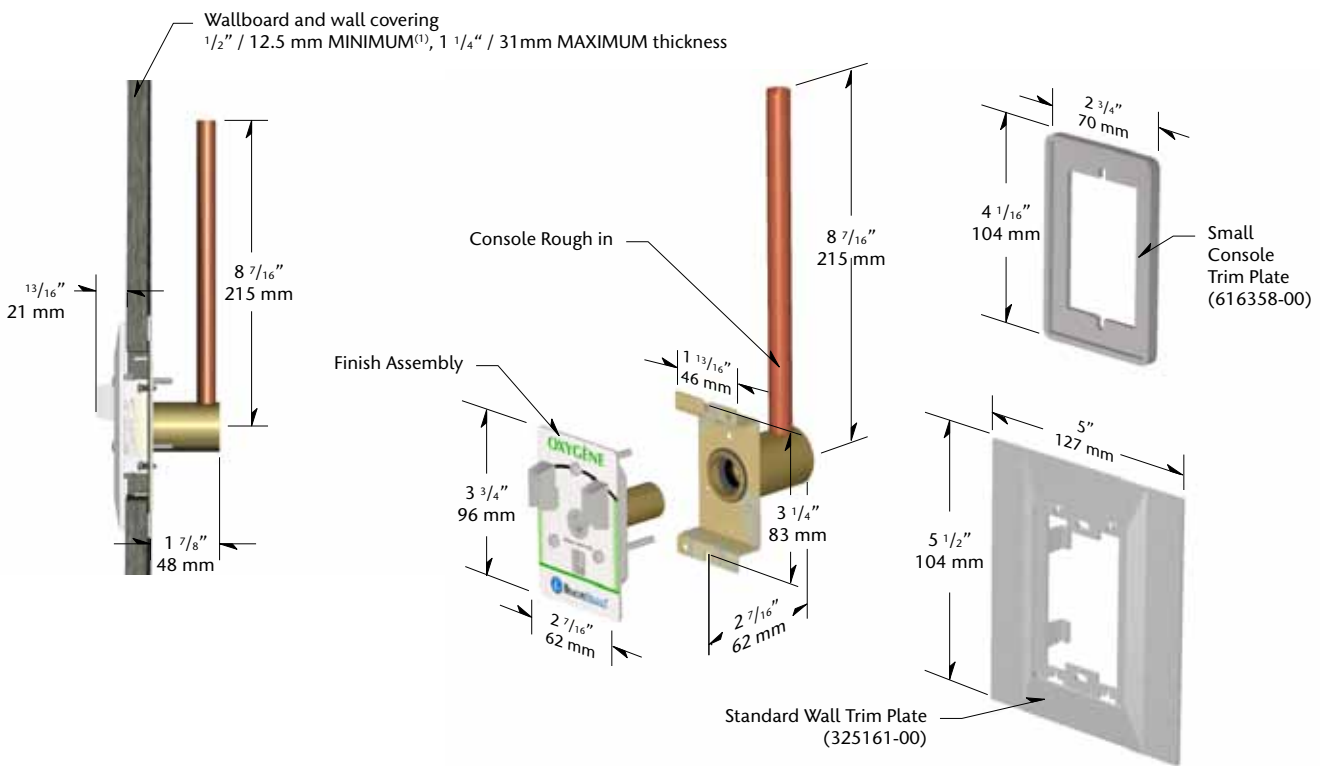


**Dimensions and Installation**



<sup>(1)</sup> When wallboard is less than 1/2" / 12.5 mm thick, as in consoles and headwalls, console outlets should be considered.

<sup>(2)</sup> Plates may gang together in any length. Up to three may be ganged without additional support, however, top and bottom support is always recommended. Total finished length will be 5" / 127 mm x number of outlets in the gang (e.g. three outlets = 5 x 3 = 15")



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## Series B Medical Gas Outlet Medaes Pin Index Key Style

### SPECIFICATION

#### Medaes Diamond Medical Gas Outlet

The pin index medical gas outlets are gas specific for the services indicated and accept only corresponding pin index adapters. The outlets are UL listed, CSA certified, and fully compliant with the latest edition of CSA Z7396-1. All outlets are 100% tested for flow, leaks and connector attachment. The outlets are cleaned for oxygen service in the manufacturing process.

#### Outlet Design

A complete medical gas outlet consists of a gas specific rough in assembly for installation before the wall or console finish is completed. Then a matching gas specific latch valve assembly and trim plate is installed after the finish is complete.

#### Rough-in Assembly

The rough in assembly is of modular design and includes a gas specific 16 gauge steel mounting plate. Wall versions permit on-site ganging of multiple outlets, in any order, with 12.7 cm (5") centerline spacing. A 9.5 mm (3/8") high metal flange around the outlet opening provides a plaster flange. A temporary cover is provided to keep debris out of the outlet during installation. Console rough ins fit standard electrical box cutouts and screw locations.

A machined brass outlet block is permanently attached to the rough in plate to permit the 1/2" OD (3/8" nominal), type K copper inlet tube to swivel 360° for attachment to the piping system. Gas service identification is affixed to the inlet tube and the face of

the rough in plate. A secondary valve is installed in the outlet block of the rough-in assembly (except vacuum) for both pressure testing and preventing gas flow when the latch valve assembly is removed for service. The outlet block contains a double seal to prevent gas leakage between the rough in and latch valve assemblies after the wall is finished. Outlets using a single O-ring seal are not acceptable.

#### Latch Valve Assembly

The latch valve assembly includes a captured o-ring seal primary valve, is gas specific for the labeled service, and accepts only corresponding hose and apparatus with corresponding pin index adapters. The latch valve assembly is indexed to the corresponding rough in assembly to avoid accidental cross connection and self adjusts up to 1.9 cm (3/4") to allow for variation in finished wall thickness from 12.5 mm (1/2") up to 3.175 cm (1 1/4").

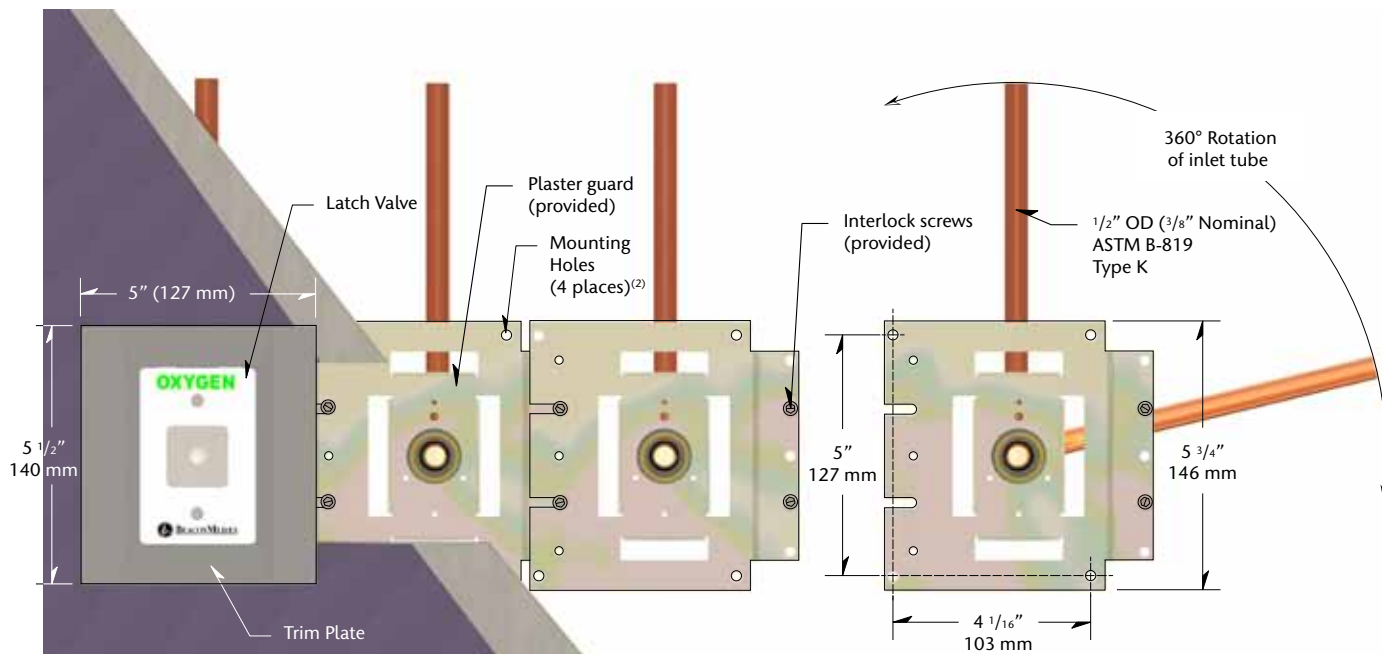
#### Trim Options

Either a die cast, light gray, epoxy powder-coated trim plate or a smaller plastic trim plate can be provided to trim each outlet. The die cast plate is designed specifically to and to fill the space between adjacent outlets. Either trim plate allows latch valves to be individually removed for servicing.

<b>Pin Index Outlets</b> <i>(Note that a typical complete outlet consists of one Rough In, one matching Latch Valve and one Trim Plate)</i>			
Gas Service	Rough-in Assembly, Wall	Rough-in Assembly, Console	Latch-Valve Assembly
Oxygen	<input type="checkbox"/> 233110-00	<input type="checkbox"/> 233010-00	<input type="checkbox"/> 230940-00
Nitrous Oxide	<input type="checkbox"/> 233111-00	<input type="checkbox"/> 233011-00	<input type="checkbox"/> 230941-00
Medical Air (ISO)	<input type="checkbox"/> 233116-00	<input type="checkbox"/> 233016-00	<input type="checkbox"/> 230947-00
Vacuum (ISO)	<input type="checkbox"/> 233117-00	<input type="checkbox"/> 233017-00	<input type="checkbox"/> 230948-00

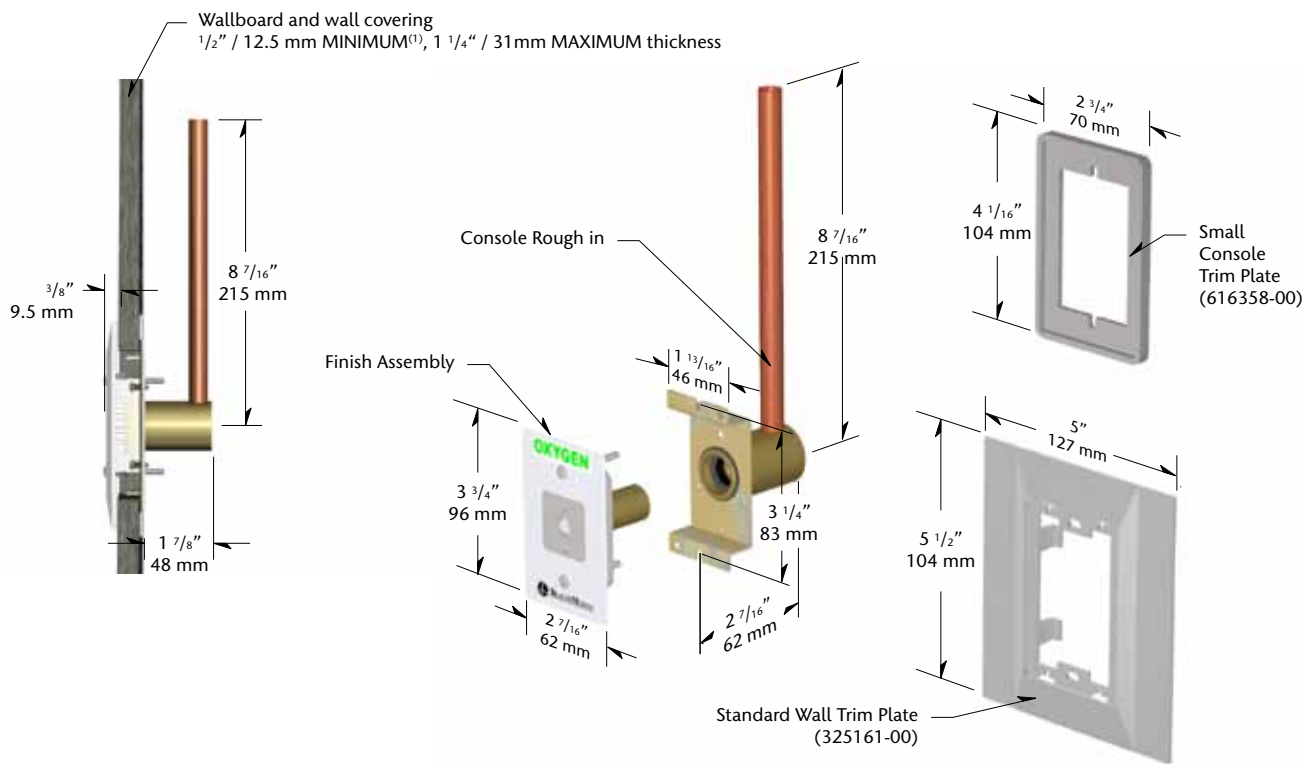
<b>Accessories</b> <i>(Note good design provides one slide with each vacuum)</i>			
Slide (Wall outlet style, Complete)	<input type="checkbox"/> 120978-00	Duplex Electrical Receptacle (Gray 15A, 125V, Wall outlet style, Complete)	<input type="checkbox"/> 120972-00
Slide (Surface mount style)	<input type="checkbox"/> 135012-00	WALL (Large) Style Trim Plate	<input type="checkbox"/> 325161-00
Blank, Gas (Complete with RI and finish)	<input type="checkbox"/> 120979-00	CONSOLE (Small) Style Trim Plate	<input type="checkbox"/> 616358-00

**Dimensions and Installation**



<sup>(1)</sup> When wallboard is less than 1/2" / 12.5 mm thick, as in consoles and headwalls, console outlets should be considered.

<sup>(2)</sup> Plates may gang together in any length. Up to three may be ganged without additional support, however, top and bottom support is always recommended. Total finished length will be 5" / 127 mm x number of outlets in the gang (e.g. three outlets = 5 x 3 = 15")



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