esco industries

Medical Gas Outlets & Accessories

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SIS Type Standard & Pump Operated Gas Outlets

MGOA	Medical Air Self Sealing Outlet	
MGOO	Oxygen Self Sealing Outlet	
MGONO	Nitrous Oxide Self Sealing Outlet	
MGOPGS	Pump-Gas Scavenge Outlet	
MGOST	Surgical Tool Self Sealing Outlet	
MGOPS	Pump Suction Self Sealing Outlet	
MGOCD	Carbon Dioxide Self Sealing Outlet	
MGOENT	Entonox Self Sealing Outlet	#
MGOCAB	Carbogen Self Sealing Outlet	#
MGOTQ	Tourniquet outlet 3/8" BSP/F Connection	#
MGONIT	Nitrogen Self Sealing Outlet	#
MGOOH	Oxygen/Helium Self Sealing Outlet	#
MCSCAV	Passive Gas Scavenge Outlet	#

 # Made To Order

Suits all SIS Hose Fittings & Connectors

Outlets suit all Standard SIS Hose Fittings and Connectors

MGOA

MGOO

MGONO

MGOPGS

MGOST

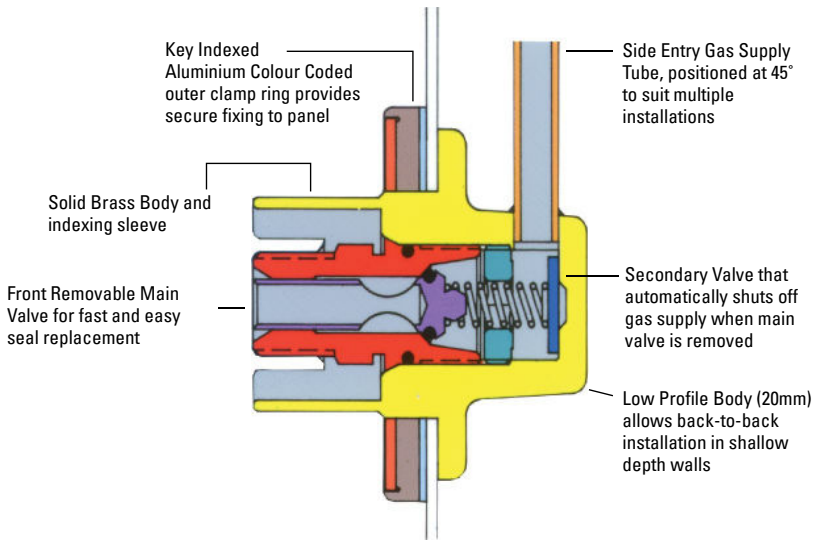
MGOPS

MGOCD

MCSCAV

MGOPGS - Pump Gas Scavenge. This outlet which is connected to a central vacuum pump system, complies with the connection and performance standards requirements of AS2896. The flow rate may be controlled by an inbuilt needle valve.

Cross Sectional Image



SIS Type Standard & Pump Operated Gas Outlets - *Maintenance*

SIS Type Gas Outlets - Spare Parts

To carry out the following procedures it will be necessary to have some specific tools which are available as a set from ESCO - Catalogue number **MGSK** as well as the Spare Parts Repair Kit **MGSK-2**

TO CLEAN OUTLET AND REPLACE MAIN VALVE SEAL PROCEED AS FOLLOWS

a. Remove threaded nipple assembly (item 2) by turning anti-clockwise using special 13mm socket spanner.

b. On Oxygen, Air, Nitrous Oxide and Surgical Tool outlets secondary valve (item 6) will automatically cut off the gas supply.

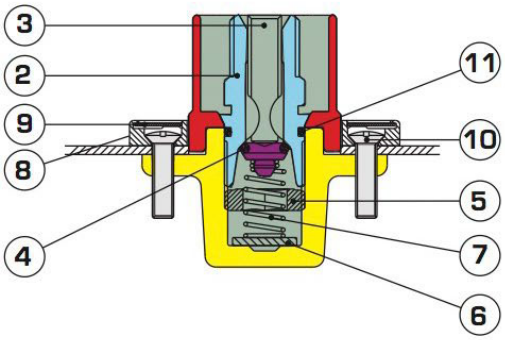
c. Purge the rubbish that may have accumulated in valve or supply pipeline by depressing the secondary valve (item 6) with a small probe.

Caution - care should be taken during this operation to avoid eye damage

d. Remove the main valve (item 3) from threaded nipple (item 2) and examine this 'O'ring seal (item 4) for damage or deterioration.

Note - it is fairly common after installation of a pipeline system for copper pipe filings to become embedded in this 'O'ring which should be replaced to prevent leakage.

e. After cleaning the valve seat, check 'O'ring seal on nipple (item11) for any damage, then reassemble the unit.



		Part Numbers				
Item	Description	Oxygen	Medical Air	Nitrous Oxide	Pump Suction	Surgical Tools
2	Threaded Nipple	Z02C166	Z02C166	Z02C166	Z02C166	Z02C166
3	Main Valve	Z02C167	Z02C167	Z02C167	Z02C167	Z02C167
4	"O" Ring Seal	Z17B001	Z17B001	Z17B001	Z17B001	Z17B029
5	Valve Seat	Z02C296	Z02C296	Z02C296	-	Z02C296
6	Secondary Valve	Z18B002	Z18B002	Z18B002	-	Z18B002
7	Valve Spring	Z25A021	Z25A021	Z25A021	Z25A002	Z25A021
8	Retaining Ring	Z02A113	Z02A114	Z02A107	Z02A116	Z02A111
9	Name Plate	Z03A046	Z03A056	Z03A041	Z03A048	Z03A045
10	Screw (2-off)	Z01A046	Z01A046	Z01A046	Z01A046	Z01A046
11	"O" Ring Seal	Z17B006	Z17B006	Z17B006	Z17B006	Z17B006

SIS Type Pump Operated Gas Outlets - Spare Parts

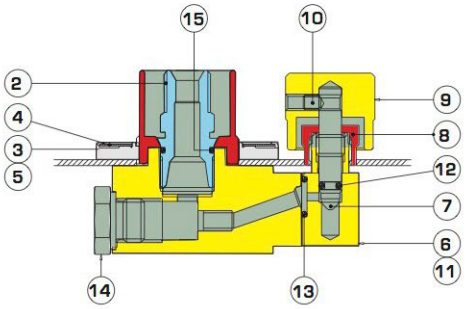
To carry out the following procedures it will be necessary to have some specific tools which are available as a set from ESCO (Cat. Number MGSK).

While virtually no maintenance is required on this valve, disassembly of needle valve may be carried out as follows:

a. Needle Valve Inspection

b. Remove needle valve knob (item 9) and retaining nut (item 8). Unscrew needle valve (item 7) and examine the "O" ring (item 12) for damage or deterioration.

c. Clean valve of any foreign matter and reassemble.



Item	Description	Part Numbers	Item	Description	Part Numbers
2	Threaded Nipple	Z02C166	10	Grub Screw	Z01G011
3	Retaining Ring	Z02A109	11	Cap Screw (2 off)	Z01A049
4	Name Plate	Z03A043	12	"O" Ring Seal	Z17B002
5	Screw (2 off)	Z01A046	13	"O" Ring Seal	Z17B003
6	Needle Valve Body	Z02G037	14	Outlet Plug	Z02C026
7	Needle Valve	Z02E006	15	"O" Ring Seal	Z17B006
8	Retaining Nut	Z02C006			
9	Knob	Z02A002			

PLEASE REFER TO PAGE 9 FOR RECOMMENDED MAINTENANCE SCHEDULES.

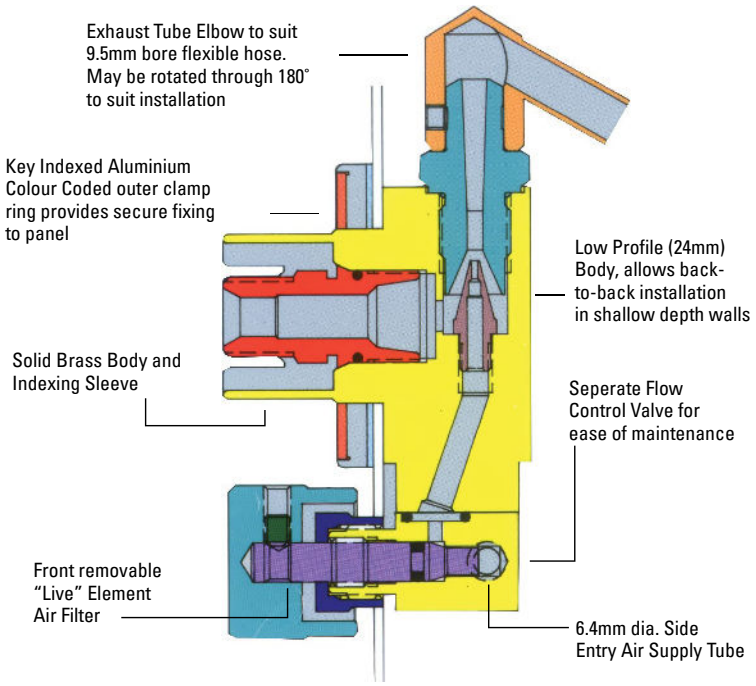
SIS Type Venturi Suction & Venturi Scavenge Operated Gas Outlets

MGOVS Venturi Suction Outlet
MGOVGS Venturi Scavenge Outlet

Suits all SIS Hose Fittings & Connectors

These outlets offer the same function and performance as Pump Suction and Pump Gas Scavenge outlets and are used when there is no central vacuum pump system available. They are connected to a positive pressure driving gas supply, usually Medical Air, and feature a venturi system to create the required suction supply.

MGOVS **MGOVGS**



SIS Type Venturi Suction & Venturi Scavenge Operated Gas Outlets - *Maintenance*

To carry out the following procedures it will be necessary to have some specific tools which are available as a set from ESCO (Cat. Number MGSK).

TO CLEAN BLOCKED AIR LINE FILTER PROCEED AS FOLLOWS:

a. Remove needle valve knob (item 15) and retaining nut (item 14).

b. Unscrew needle valve (item 12) allowing gas pressure to purge any rubbish from void below needle valve nose. **CAUTION**: Care should be taken during this operation to avoid eye damage.

c. Examine "O" ring (item 13) on needle valve and replace if necessary.

d. Reassemble needle valve in body and tighten by hand to shut off air flow.

e. Check that full suction pressure is now being generated by venturi action and reassemble retaining nut and knob.

IF FULL SUCTION PRESSURE IS STILL NOT OBTAINED IT MAY BE NECESSARY TO REMOVE AND CLEAN THE AIR JET AS FOLLOWS:

a. Remove S/S outlet panel.

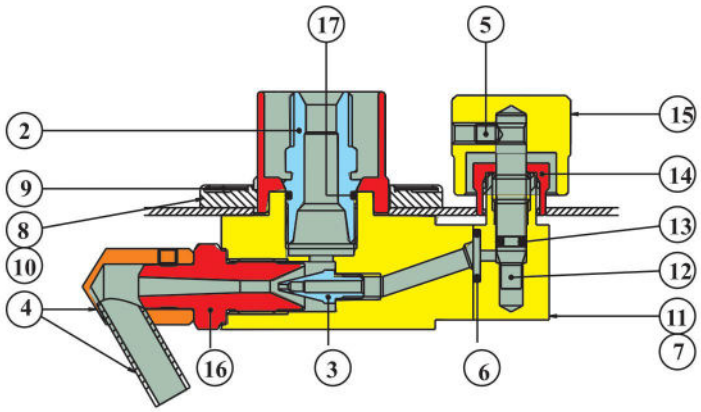
b. Disassemble needle valve body (item 11) from main body by undoing 2 cap screws (item 7).

c. Remove exhaust tube assembly (item 4) and Venturi tube (item 16).

d. Using ¼ tube spanner, remove Venturi jet (item 3) and clean out small air passage.

e. While at this stage of disassembly check that the main section of the valve and its exhaust to atmosphere is free of any congealed body fluids which may have accidently been allowed to enter the system. The presence of such matter will reduce the suction pressure and must be completely removed from valve and exhaust lines. Check for kinks if flexible exhaust is used.

f. Finally reassemble the unit and test making sure that the "O" ring (item 6) is in place between main and needle valve bodies.



		Part Numbers	
Item	Description	Suction	Gas Scavenge
2	Threaded Nipple	Z02C166	Z02C166
3	Venturi Jet	Z02C122	Z02C122
4	Exhaust Tube	Z02G049	Z02G049
5	Grub Screw	Z01G011	Z01G011
6	"O" Ring Seal	Z17B003	Z17B003
7	Screw (2 off)	Z01A049	Z01A049
8	Retaining Ring	Z02A116	Z02A109
9	Name Plate	Z03A048	Z03A043
10	Screw (2 off)	Z01A046	Z01A046
11	Needle Valve Body	Z02G039	Z02G039
12	Needle Valve	Z02E001	Z02E001
13	"O" Ring Seal	Z17B002	Z17B002
14	Retaining Nut	Z02C006	Z02C006
15	Knob	Z02A002	Z02A002
16	Venturi Tube	Z02C121	Z02C121
17	"O" Ring Seal	Z17B006	Z17B006

PLEASE REFER TO PAGE 9 FOR RECOMMENDED MAINTENANCE SCHEDULES.

SIS Type Gas Outlets with NIST Connections

Medical Gas Outlets with Male NIST Connection	
MOMGOO	Oxygen
MOMGOA	Air
MOMGOPS	Pump Suction
MOMGONO	Nitrous Oxide
MOMGOCD	Carbon Dioxide
MOMGOST	Surgical Tool Air
MOMGOPGS	Pump Gas Scavenge
MOMGOVS	Venturi Suction
MOMGOVGS	Venturi Suction

Medical Gas Outlets with Female NIST Connection	
MGOOFN	Oxygen
MGOAFN	Air
MGOPSFN	Pump Suction
MGONOFN	Nitrous Oxide
MGOSTFN	Surgical Tool Air
MGOCDFN	Carbon Dioxide
MGOPGSFN	Pump Gas Scavenge

Our SIS Type Gas Outlets can be supplied with with a Non-Interchangeable Screw Thread (NIST). This type of gas outlet primary use is within Medical Services Pendants, but can also be used in installations where running a fixed copper supply pipeline is not possible or preferred. Paired with Esco Industries gas-specific flexible nylon NIST line, this method of installation may be more practical in certain applications.

MOMGOO

MOMGOA

MOMGOPS

MOMGONO

MOMGOCD

MOMGOST

MOMGOPGS

PLEASE REFER TO PAGE 9 FOR RECOMMENDED MAINTENANCE SCHEDULES.

Laboratory Gas Outlets

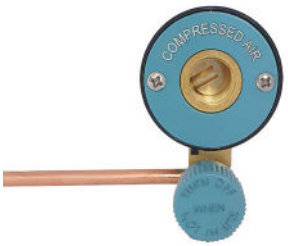
MGOCAV	Clean Air
MGOLGVCA	Compressed Air
MGOLGVN	Nitrogen
MGOLGVSG	Special Gas
MGOLGVCD	Carbon Dioxide
MGOLGVHE	Helium
MGOLGVV	Vacuum
MGOLGVTA	Tool Air
MGOLGVO	Oxygen
MGOLGVARG	Argon

MGOLGVCAB	Carbogen
MGOLGVDA	Dental Air
MGOLGVHYD	Hydrogen
MGOLGVMIX	IVF Mix
MGOLGVIA	Instrument Air
MGOLGVMTH	Methane

MGOLGV	Lab Gas Outlet 1st Fix with copper tail pipe
MGOLGV-SS	Lab Gas Outlet 1st Fix with stainless steel tail pipe

Esco Lab Gas Outlets use a control valve to open/close supply and control the flow of gases. Connection is a 3/8” BSP/F Female Thread typical for all gas types. Outlets are labeled and color coded with ID rings to suit the supplying gas type.

MGOLGVCA



SIS Type MRI Compatible Gas Outlets

Magnetic Resonance Imaging (MRI) compatible SIS type Medical Gas Outlets come complete with a full non-ferrous construction and are suitable for installation in MRI areas.
These are available with either a standard tail pipe or Male NIST Connectors.
Contact the Esco Industries team for more detail.

PLEASE REFER TO PAGE 9 FOR RECOMMENDED MAINTENANCE SCHEDULES.

Maintenance Schedule

As the manufacturer, Esco recommends the following maintenance schedule for all Esco medical gas outlets. Following this schedule helps ensure each outlet continues to operate safely and reliably throughout its service life.

Refer to the outlet specific procedures supplied with each outlet.

6 MONTHS

6 Monthly (with reference to AS 2896 -Sect. 6.5)

- ✓ Check for leakage in main valve.
- ✓ Check condition of male connecting thread on sleeve index types.
- ✓ Check for the presence and condition of gas specific indexing to ensure that it is not possible to fit incorrect hose or equipment.

12 MONTHS

12 Monthly (with reference to AS 2896 -Sect. 5.1)

- ✓ Check outlet performance per standard.

2 YEARS

2 Yearly

- ✓ **Replace all O-Rings.**
- ✓ Perform 6 and 12 Monthly Maintenance.

All maintenance should be carried out by suitably trained personnel and recorded in the facility's maintenance log. For replacement O-rings, spare parts or technical support, contact Esco Industries.

Medical Gas Outlets - Accessories

GAS OUTLET PLATE •
Flush Stainless Steel (120mm high)

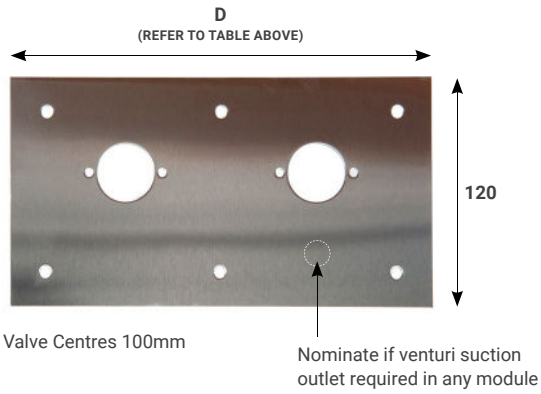
MGFP1 1 gang panel for gas outlet
MGFP2 2 gang panel for gas outlet
MGFP3 3 gang panel for gas outlet
MGFP4 4 gang panel for gas outlet
MGFP5 5 gang panel for gas outlet
MGFP6 6 gang panel for gas outlet
MGFP7 7 gang panel for gas outlet

Nominate position of outlet with control valve eg. Venturi suction

Catalog No:	Module	Dim "D"
MGFP1	1	120
MGFP2	2	220
MGFP3	3	320
MGFP4	4	420
MGFP5	5	520
MGFP6	6	620
MGFP7	7	720

FLUSH MOUNTED WALL PANELS

These are manufactured from 1.2mm grade 304 stainless steel with a vertical grain brushed finish. They are supplied pre-punched for gas outlets with an option for extra hole for venturi suction outlet added to any gangs nominated at no extra charge.



GAS OUTLET WALLBOX •
for Flush Plate (120mm high)

MGWB1 1 gang flush wall box
MGWB2 2 gang flush wall box
MGWB3 3 gang flush wall box
MGWB4 4 gang flush wall box
MGWB5 5 gang flush wall box
MGWB6 6 gang flush wall box
MGWB7 7 gang flush wall box

Catalog No:	Module	Dim "A"
MGWB1	1	100
MGWB2	2	200
MGWB3	3	300
MGWB4	4	400
MGWB5	5	500
MGWB6	6	600
MGWB7	7	700

FLUSH MOUNTING WALL BOXES

These are manufactured from galvanised steel and have these exclusive features:

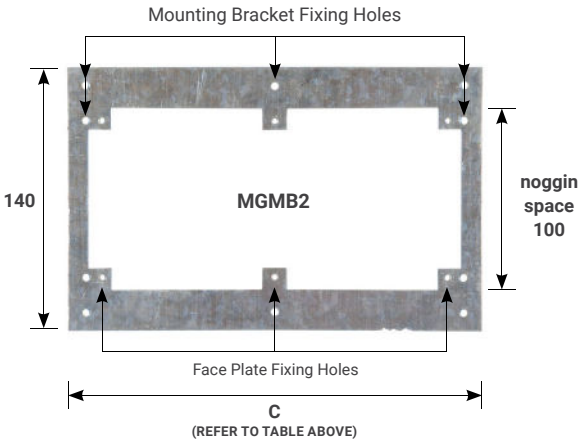
1) Back tapered for positive retention in rendered walls
2) Clip-on mounting straps for positioning prior to rendering
3) Self aligning plate mounting brackets

Medical Gas Outlets - Accessories

GAS OUTLET MOUNTING BRACKET· For Flush Plate (120mm high)

MGMB1 1 gang mounting bracket
MGMB2 2 gang mounting bracket
MGMB3 3 gang mounting bracket
MGMB4 4 gang mounting bracket
MGMB5 5 gang mounting bracket
MGMB6 6 gang mounting bracket
MGMB7 7 gang mounting bracket

Catalog No:	Module	Dim "C"
MGMB1	1	120
MGMB2	2	220
MGMB3	3	320
MGMB4	4	420
MGMB5	5	520
MGMB6	6	620
MGMB7	7	720



STUD WALL MOUNTING BRACKET

These are an alternative method to wall box for mounting flush wall panels on stud type walls. Nailed or riveted to two horizontal noggins at 100mm spacing, they form a simple but effective frame for the wall panel screw to engage with.

GAS OUTLET SURFACE MOUNTED WALL PANELS & DUCTING

Standard: X

MGSP1 1 gang surface panel (EWA5025SM riser required)
MGSP2 2 gang surface panel (EWA7525SM riser required)
MGSP3 3 gang surface panel (EWA12525SM riser required)
MGSP4 4 gang surface panel (EWA12525SM riser required)

Nominate position of outlet with control valve eg. Venturi Suction
X- nominate applicable gas standard with order
Each panel includes riser blanking piece

Surface Wall Panels		
Catalog No:	Module	Dim "E"
MGSP1	1	120
MGSP2	2	220
MGSP3	3	320
MGSP4	4	420

SURFACE MOUNTED WALL PANELS & DUCTING

The surface mounted wall panel is manufactured from a combination of brushed stainless steel and powder coated steel.
The ducting, which may enter the panel from top or bottom, (always specify which, if venturi valves are to be used), is supplied in three different widths to suit panel selected and in standard lengths of 2.4 meters. Colour: Surf Mist

Related Products

Medical Gas Isolation Valve Boxes

Medical Gas Alarm Panels

Medical Services Panels

Medical Gas Hose Assemblies & Fittings

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All products and information listed are accurate as of 13 May 2025.