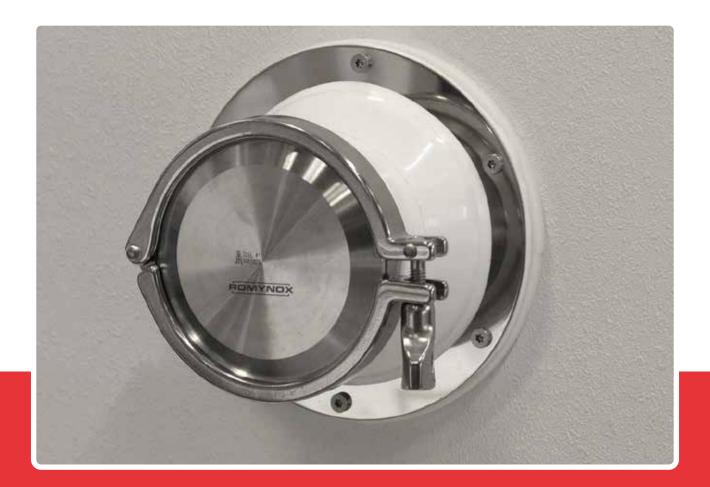
# **WALL TRANSFER PORT**

# **INSTALLATION GUIDE**



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## INTRODUCTION

The Romynox Mousehole is a simple, though effective way to make transfer possible between two (clean) rooms. In this way you can move large volumes of liquids without the risk of bin breakage or spillage during bin transfer.

The base system consist of a stainless steel portal with tri-clamp connections on both sides, which can be modular extended with:

The Romynox 8-I series Iris valves are specially designed as a Transfer Port solution, to make transfer possible between two clean rooms in combination with our Mousehole. The lightweight pharma approved valve body is made of FDA approved plastic POM material, with an Iris made of FDA approved white EPDM. The Iris is easy to lock in various positions.

This can be done on one or both sides to give you the connections needed. Standard sizes are 2" - 6". Other size are on request.

## **COMPONENTS**

The Romynox Mousehole Transfer Port consists of several components that create the portal assembly. Some of your components may appear different than what is shown below:



- A Portal
- B Sanitary Gaskets (2x) Type A Flanged
- Solid End Caps (2x)
- Sanitary Clamps (2x)
- Pipetites (2x)
- Support Rings (4x)





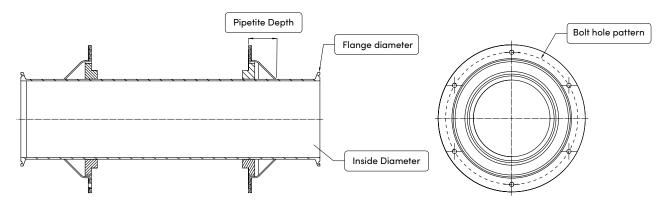


# **SPECIFICATION**

Minimum Wall/Floor Thickness	Standard from 2½" or 5". Custom on request.
Maximum Wall/Floor Thickness	Standard up to 5" or 10". Custom on request.

Materials	Portals	Stainless Steel 316L	
	End Caps	Stainless Steel 316L	
	Isolating Gaskets	Platinum Cured Silicone	
	Clamps	Stainless Steel 304L	
	Pipetites	Silicone with Stainless Steel Ring	
	Support Rings	Nylon	

Surface Finish	30Ra Micro-inches / Ra < 0,8 μm	
Passivation	All surfaces	



	Portal size	2" (50.8mm)	4" (101.6mm)	6" (152.4mm)
	Inside Diameter	1.87" (47.5mm)	3.83" (97.3mm)	5.75" (146.1mm)
Dimensions	Flange Diameter	2.52" (64mm)	4.68" (119mm)	6.57" (167mm)
	Bolt Holes	6x Ø 0.22" (5.5mm)	6x Ø 0.22" (5.5mm)	10x Ø 0.24" (6mm)
	Pipetite Depth	2.21" (56.2mm)	1.68" (42.6mm)	2.05" (52.1mm)







#### **PREPARATION**

Prior to installation, locate on the wall the position of your Romynox Mousehole Transfer Port using the dimension table, below. We recommend positioning the portal 36" above the finished floor and at least 12" from an inside corner.

Portal Size	2" (50.8mm)	4" (101.6mm)	6" (152.4mm)
Height	24" to 40" (600-1020mm)	24" to 40" (600-1020mm)	24" to 40" (600-1020mm)
Spacing	7.79" (197.8mm)	9.36" (237.7mm)	11.33" (287.8mm)
Bore Size	2.55" (64.8mm)	4.80" (122.0mm)	6.60" (167.6mm)
Pipetite Flange Diameter	5.79" (147.0mm)	7.36" (186.9mm)	9.33" (237.0mm)

Next, bore a hole in the wall or floor according to the Bore Size in the dimension table for your portal size. This will allow the portal to pass cleanly through the wall.

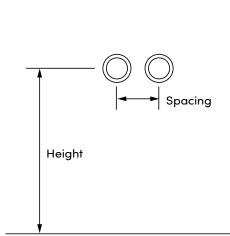
Do not make the wall or floor bore oversize, otherwise, the mounting screws or wall anchors may not have sufficient material to support the weight of the portal assembly.

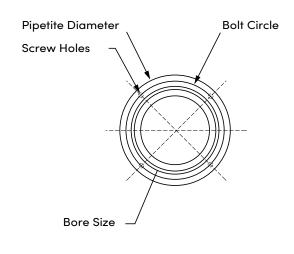
If cutting through multiple walls, we suggest drilling a 1/2" diameter pilot hole through all of the walls, floors or partitions, then insert a sufficiently long enough solid steel dowel or

pipe through and check that both ends are parallel to the finished floor.

We recommend using 316 stainless steel mounting screws to avoid galvanic corrosion between the portal flange and the mounting screw head. Select a mounting screw that is appropriate for your particular wall material. If the mount screw is not available in 316 grade, insert a nylon or similar plastic washer between the screw head and the portal flange.

All wall and floor mounting screws should have a minimum load rating of 100 pounds.







# **INSTALLATION**

Prepare hole according to preparation.



Insert the portal so that it is centered horizontal in relation to the wall.



Insert support ring halves into gap between portal and wall.



Make sure that the support rings are placed tight and horizontal.

In the case of a thin wall, rotate the support rings on the other side of the wall.

Also apply a very small (<1/8") bead of clear silicone sealant around the portal. This will seal the assembly to the wall and address any gaps between the wall material and portal.





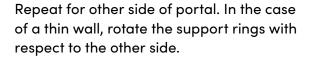


Cut of the Pipetite at the right indicated line and install the Pipetite with base towards the wall.



Pre-drill holes through the Pipetite base and support ring. Screw appropriate wall screws through pre-drilled holes into wall material. Select a mounting screw that is appropriate for your particular wall material.

If the mount screw is not available in 316 grade, insert a nylon or similar plastic washer between the screw head and the portal flange.



Also apply a very small (<1/8") bead of clear silicone sealant around the portal. This will seal the assembly to the wall and address any gaps between the wall material and portal.

To complete the installation, apply a very small (<1/8") bead of clear silicone sealant to the perimeter of the support ring. This will seal the assembly to the wall and address any gaps between the wall material and the support ring.

Now you can use the Romynox Mousehole Transfer Port.















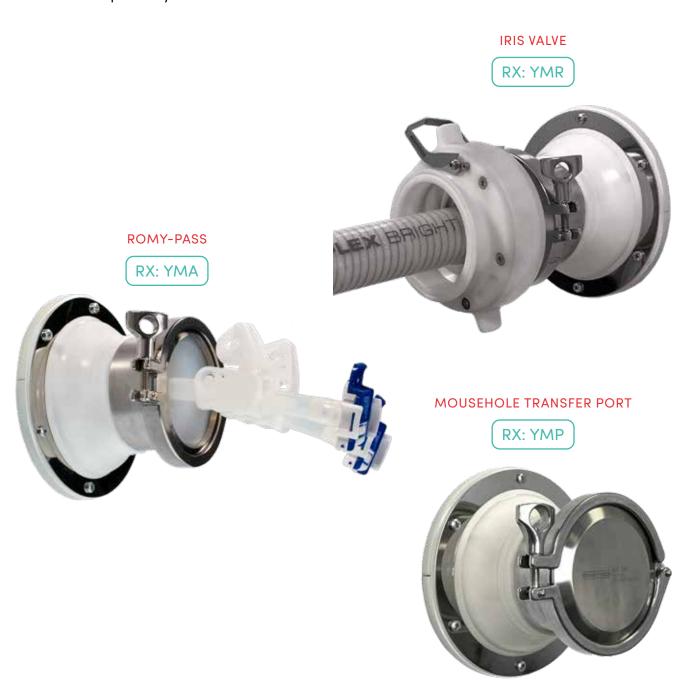
## **MAINTENANCE**

The Romynox Mousehole Transfer Port is a static device that has been designed to provide years of service with no maintenance and can be cleaned with regular cleanroom routine.

We also recommend replacing the silicone sealant found along the perimeter of the support ring every two (2) to three (3) years in accordance with your routine sealant replacement practice.

# **OPTIONS**

Besides the module mentioned in the introduction (Iris Diaphragm Valve), we can deliver tailormade End Caps to fit your hoses.









# **ROMYNOX MOUSEHOLE TRANSFER PORT AS A POSITIVE BARRIER**

This page will detail the logic, general theory, and specific steps for using the Wall Transfer Port as a positive barrier between rooms. For the example below two rooms, one that is Class D and one that is Class C are used. To accomplice this you need the type with Purge Ports, these are not standard.

## **PORTAL SET UP**

Solid isolator seal and solid end cap installed on both sides of portal.

Air valve/regulator installed at purge port A and supplied with 5 psi (0,34 bar) oil-less filtered air. Note: Regulator should be open at all times to maintain the pressure and provide a positive barrier between rooms even when not in use.

One-way check valve or hand valve in open position installed at purge port B. Exhaust line ran to exit Class D room through a vent or sterilizing filter.

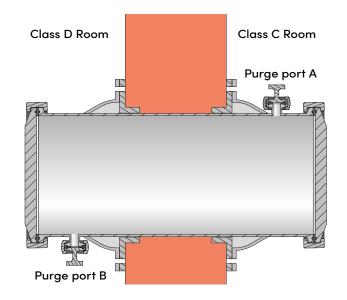
## **HOSE INSTALLATION**

In Class C room, remove solid end cap and solid isolator seal. Install the Hose and install welded split end cap or iris valve.

Note: The air from the Class C room that entered the portal is now flushed through purge port B. The air purge will occur within 15 seconds to one minute depending on the standard portal size.

In Class D room, remove solid end cap and install the Hose with welded split end cap or iris valve.

Note: The air from the Class D room that entered the portal is now flushed through purge port B. The air purge will occur within one minute as calculated for the 6" diameter standard portal size.



The Romy-Pass assembly, which can be applied in this construction, if installed correctly, it will be 100% air tight. But using the set-up and operation above, it's still possible that filtered air can migrate through the isolator disc. This is due to the pressure being higher in the transfer port with purge connections, than the ambient pressure of either room.





