

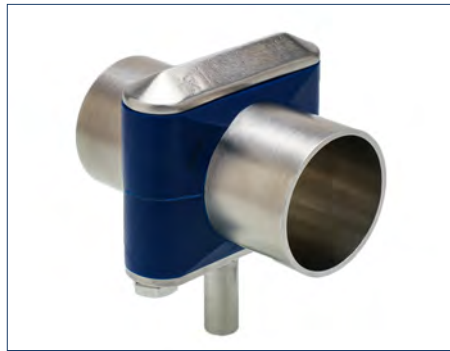
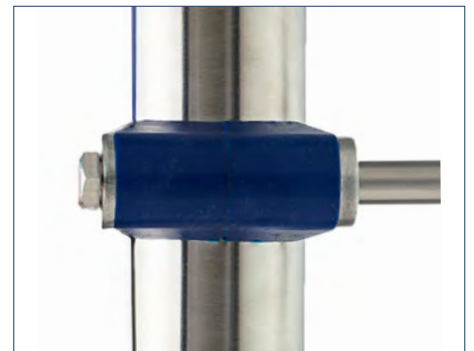


# Syntiro Dynamics

## ELECTRICAL CONDUITS CATALOG

Hygienic Pipe Hanging Systems for Stainless Steel Pipe,  
PVC Coated Pipe, EMT Conduit and Instrumentation Lines

### DRAINABLE & CLEANABLE



### NO EXPOSED THREADS



### ZERO CAULK™ - ENGINEERED SOLUTIONS



|                                                                                                    |     |
|----------------------------------------------------------------------------------------------------|-----|
| NEW & UNIQUE HANGERS - Solutions Increasing Uptime                                                 | 3-4 |
| CSD SERIES - Detail Sheet                                                                          | 5   |
| CSDH - Hang Mount - Threaded Connection                                                            | 6   |
| CSDW - Weld Mount - Welded to Structure or Mounting Rod                                            | 7   |
| CSDBM - Base Mount - Flat Bottom Plate                                                             | 8   |
| CSDBMC - Base Mount - Threaded Coupling Connection                                                 | 9   |
| CSDBMR - Base Mount- Rod Connection                                                                | 10  |
| CSDWR - 6" Rod Welded to CSDW - custom lengths available                                           | 11  |
| CSDD - Dual Instrumentation Line Supports                                                          | 12  |
| CSDQ - Quad Instrumentation Line Supports                                                          | 12  |
| PHH SERIES - Detail Sheet                                                                          | 13  |
| PHHW - Process Hex Hanger Weld Mount - Rod to be Welded to Hardware Frame                          | 14  |
| PHHC - Process Hex Hanger Threaded Coupling - Thread Mount                                         | 15  |
| PHHR - Process Hex Hanger Rod Mount - Rod is Welded to Hardware Frame                              | 16  |
| ZCB - Zero Caulk Bracket - Mounts CSD Series - Material Data, Features and Benefits                | 17  |
| ZCB - Zero Caulk Bracket - Dimensions and Part Numbers                                             | 18  |
| ZCUB- Zero Caulk Universal Bracket - Mounts CSD & PHH Series - Materials, Features and Benefits    | 19  |
| ZCUB - Zero Caulk Universal Bracket - Dimensions and Part Numbers                                  | 20  |
| ZCUP MINI- Zero Caulk Universal Plate - Mounts CSD & PHH Series - Materials, Features and Benefits | 21  |
| ZCUP MINI - Zero Caulk Universal Plate - Dimensions and Part Numbers                               | 22  |
| ZCUP - Zero Caulk Universal Plate - Mounts CSD & PHH Series - Materials, Features and Benefits     | 23  |
| ZCUP - Zero Caulk Universal Plate - Dimensions and Part Numbers                                    | 24  |
| ZC1S and ZC2S - 1" and 2", 1/4" and 3/8" Zero Caulk Spacers - Materials, Features and Benefits     | 25  |
| ZC1S and ZC2S - 1" and 2", 1/4" and 3/8" Zero Caulk Spacers - Dimensions and Part Numbers          | 26  |
| ZC1PC and ZC2PC- Zero Caulk CSD Series Pedestal Mount - Material Data, Features and Benefits       | 27  |
| ZC1PC and ZC2PC - Zero Caulk CSD Series Pedestal Mount - Dimensions and Part Numbers               | 28  |
| ZC1PP and ZC2PP - Zero Caulk PHH Series Pedestal Mount - Material Data, Features and Benefits      | 29  |
| ZC1PP and ZC2PP - Zero Caulk PHH Series Pedestal Mount - Dimensions and Part Numbers               | 30  |
| ZCMPB - Zero Caulk Multi Pipe Bracket - Material Data, Features and Benefits                       | 31  |
| ZCMPB - Zero Caulk Multi Pipe Bracket - Dimensions and Part Numbers                                | 32  |
| ZCUPT-038 - Zero Caulk Universal Plate with 3/8"-16 Connection - Dimension and Part Number         | 33  |
| SROD - Shielded Rod - All Thread Rod with LDPE Shield - 6' Lengths                                 | 34  |
| CSD Guides - Details Section                                                                       | 34  |



## About Syntiro

Syntiro was established in 2009 and has become a top supplier of sanitary pipe hanging systems. We offer a comprehensive range of cleanroom pipe hangers supporting stainless steel and copper tubing, schedule pipe, conduit, instrumentation, and cable lines. Our hangers are mainly used in hygienic piping applications in the biotech, pharmaceutical, food, beverage, and dairy industries.

The CSD Series is an excellent option for creating a thorough cleanroom environment, thanks to its vast range of line types supported and various mounting configurations. It features Zero Puddle silicone rubber inserts with a convex design that eliminates flat surfaces on riser / vertical lines. Along with the anchor hangers, loose-fit guides are also offered. Guides allow a line to expand and contract freely during thermal cycling. The CSD's robust building and impressive features have made it a top choice for many contractors and OEMs.

The Process Hex Hanger is designed for easy cleaning and incorporates the hexagonal shape commonly used in the food and beverage industries. Its unique features include Zero Puddle™ silicone rubber inserts that eliminate puddling, exposed threads, and other debris-collecting points that can compromise sanitation. Unlike outdated hex hangers, the PHH's modern design has no blind spots or voids that can harbor pathogens, and it requires only one tool for installation, reducing the risk of accidents and making it easier to work in tight spaces. The Process Hex Hanger is the perfect solution for complying with Food Safety Modernization Act cleanliness requirements in the 21st century.

Our Zero Caulk™ Brackets and Zero Caulk Spacers are self-explanatory. These products provide a hygienic Zero Caulk connection for hangers and equipment mounted on surfaces in process areas. The Food Safety Modernization Act requires everything mounted in process areas to be offset from the surface to allow complete cleaning access. Traditionally, brackets and offset spacers have required a caulked seal to cover gaps on all surfaces. However, a caulk seal can deteriorate over time due to continued exposure to wash and wipe downs, which accelerates the breakdown of caulk, leading to bacterial harborage points that will require removal and reapplication of caulk in a few years. Any areas that harbor bacteria can lead to contamination. Zero Caulk mounted products eliminate the caulking process, resulting in improved cleanliness, reduced labor costs, and decreased costs and downtime. This means you can save time and money by avoiding the need to inspect, remove, and reapply unacceptable or broken-down caulk.

Syntiro appreciates your years of support.

# New & Unique Pipe Hanging

## SOLUTIONS INCREASING UPTIME

### ZERO CAULK™ 1" AND 2" SPACERS - ZCS SERIES

Silicone Rubber Gasket Seals To Wall's Surface and Mounted Device

NEW



Pages 25-26

- Silver ions are blended in the FDA-grade silicone rubber sealing plugs, impeding bacteria, mold, and fungus from forming.
- ZCS's silicone rubber plugs fill the cups/boot interior, creating a water-tight seal to the surface.
- Eventually all caulk in clean applications will break down, creating harborage zones that can lead to pathogen growth. ZCS effectively ELIMINATES such caulk-risk.
- If you can't see it, reach it, clean it, or sample it, it has the potential to allow the growth of microbials.



NEW



Pages  
31-34

### ZERO CAULK™ PEDESTAL MOUNT - ZCP SERIES

The ZC Pedestal's base mounts are the new ZC 1" or 2" high ZCS spacers. The Zero Puddle CSDW style hanger or the Process Hex Hangers PHHW hangers are mounted to the top of the ZC Spacer. The ZCP's are ideal for installing to Insulated Metal Panels (IMPs) with blind side walls, yet are perfect for Cleanroom Wall Panels with open rear side excess. When mounting to IMP's stainless steel cup/boot encases the rivet nut, the silicone rubber plug fills the ZCS's interior and seals to the mounting surface.

- Silver ion additives are blended in FDA-grade Silicone Rubber Gaskets, preventing bacteria, mold, and fungus from forming on the gasket.
- Caulk over time with exposure will break down and crack
- Harborage points are potential bacterial growth zones
- ZC products eliminate the need to inspect and reinstall caulking
- Reducing downtime.

U.S. Pat. No. US 9,822,907



# Syntiro Dynamics

## "HANG WITH THE BEST"

### NO EXPOSED THREADS



## PROCESS HEX HANGER - PHH

- Drainable exterior
- Wipe down cleanable
- No exposed threads
- Self-draining on riser lines
- Carriage bolt locks into hardware frame's square hole, allowing a single tool to tighten acorn nuts
- Carriage bolts are reversible, allowing rounded drainable surfaces to be positioned on hangers' topside
- The hex shape is familiar to most installers - no installation learning curve

U.S. Pat. No. US 9,038,968



## ZERO PUDDLE™ SILICONE RUBBER INSERTS

### Removes Flat Spots on Riser Hanger's Topside

Offered In: Tube OD Sizes, Scheduled Pipe, PVC Coated Conduit and Electrical Metallic Tubing (EMT)

When supporting riser/vertical lines:

- The inserts' sloped/convex sides eliminates flat surfaces
- Facilitating drainage
- Eases cleaning and wipe downs - reducing downtime
- Available on all CSD & PHH style hangers
- Available from 1/4" Tube thru 6" Tube and 1/2" Pipe thru 6" Pipe

U.S. Pat. No. US 9,033,289

### REDUCING DOWNTIME



Pages 21-24

## ZERO CAULK™ UNIVERSAL PLATE - ZCUP SERIES

Ideal for Insulated Metal Panels (IMPs) or blind side walls, but is also perfect for Clean Room Panel open side walls. The bracket's stainless steel cup/boot encases the rivet nut, while the silicone rubber plug fills the ZCUP's interior and seals to the mounting surface.

- Silver ion additive is blended in the FDA grade Silicone Rubber Gaskets, impede bacterial, mold, and fungus from forming on the gasket
- ZCUP's mounting rod allows universal mounting of any style hanger or process area accessories
- Caulk over time with exposure will break down and crack
- Harborage points are all potential bacterial growth zones
- ZC eliminates the need to inspect and replace caulking

U.S. Pat. No. US 9,033,289 B2

# CSD SERIES

## TUBE & PIPE HANGERS ZERO PUDDLE™ INSERTS

### APPLICATIONS:

- Cleanrooms and mechanical areas, including but not limited to the bio tech, pharmaceutical, food processing, beverage, dairy, cosmetic, chemical, water treatment, and semiconductor industries

### LINE TYPES AND SUPPORT RANGE:

- 1/2" - 6" Pipe
- 1/2" - 2" PVC Coated Pipe
- 1/2" - 2" EMT Thin Walled Stainless Tubing Conduits
- 1/8" - 6" Tube

### MATERIALS:

- 304 and 316 stainless steels – for 316, replace 304 with 316 in the part number
- ZERO PUDDLE™ inserts are FDA grade silicone rubber

### SPECIFICATIONS:

- Intermittent temperatures from -40F to 320F
- Continuous temperatures from -20F to 302F - Contact Syntiro with continuous application's environmental details

### BENEFITS:

- ZERO PUDDLE™ Silicone inserts' raised geometry facilitates drainage of liquids on vertical/riser lines, reducing maintenance downtime
- Sloped top plates for drainage and improved cleanability
- CSDH style incorporates an elongated threaded section that increases the housing's elevation adjustment, aiding in slope alignment
- Ideal for long runs or on piping connect equipment
- There are no exposed threads or openings in the hardware plates
- Hanger threads match the MSS 69 rod OD requirement Weld/Bottom plates added thickness helps prevent warping during welding
- CSDW and CSDBM are excellent hanger for skids
- Welding a rod to the CSDW weld plate? Consider the using CSDW6R hanger
- CSDBM's Base Mounts shaped top plate reduces flat surfaces
- Using CSDH's? Consider Syntiro's shielded all thread rods as a time saver

### SHIELDED ALL THREAD ROD:

- LDPE sleeve covers the stock 6' section of all thread
- Quick cut to length in field
- Utility knife removes LDPE exposing threads



### ZERO PUDDLE INSERT



**NEW**

### PEDESTAL 1" & 2" HIGH MOUNTS

- Offers material and labor savings
- Includes Zero Caulk technology



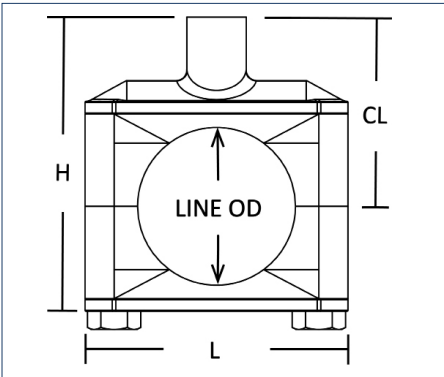
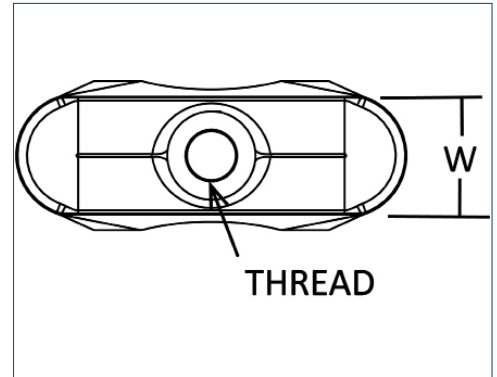
Refer to [www.syntirocorp.com](http://www.syntirocorp.com) or call Syntiro for most up to date information

U.S. Pat. No. US 8,596,589 B2, US 9,033,289 B2,  
US 9,038,968 B2 with other US Patents Pending

[www.syntirocorp.com](http://www.syntirocorp.com)

## HANG MOUNT - CSDH

FOR ATTACHMENT: Use Syntiro's Shielded Rod, solid rod with threaded end(s) or all thread rod

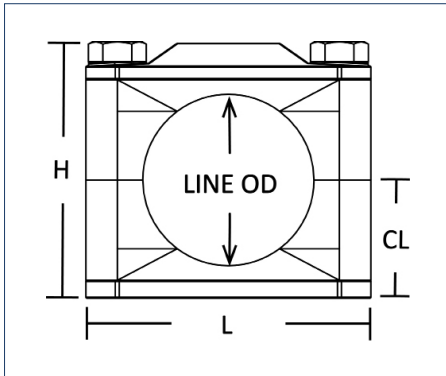
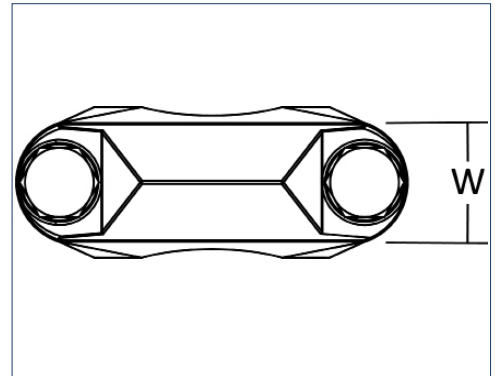


for 316 hardware substitute 304 with 316

| Pipe Size          | Line OD | H    | L    | W    | CL   | Thread  | Part Number<br>(anchor/tight fit) |
|--------------------|---------|------|------|------|------|---------|-----------------------------------|
| 1/2"               | 0.840   | 2.29 | 1.93 | 0.75 | 1.55 | 3/8"-16 | CSDH0.50P304ZP                    |
| 3/4"               | 1.050   | 2.29 | 1.93 | 0.75 | 1.55 | 3/8"-16 | CSDH0.75P304ZP                    |
| 1"                 | 1.315   | 2.79 | 2.49 | 0.75 | 1.80 | 3/8"-16 | CSDH1.0P304ZP                     |
| 1 1/4"             | 1.660   | 3.29 | 2.49 | 0.88 | 2.11 | 3/8"-16 | CSDH1.25P304ZP                    |
| 1 1/2"             | 1.900   | 3.29 | 2.99 | 0.88 | 2.11 | 3/8"-16 | CSDH1.5P304ZP                     |
| 2"                 | 2.375   | 4.36 | 3.36 | 0.88 | 2.92 | 1/2"-13 | CSDH2.0P304ZP                     |
| 2 1/2"             | 2.875   | 4.84 | 3.74 | 0.88 | 3.11 | 1/2"-13 | CSDH2.5P304ZP                     |
| 3"                 | 3.500   | 5.52 | 4.48 | 1.00 | 3.60 | 1/2"-13 | CSDH3.0P304ZP                     |
| 4"                 | 4.500   | 6.69 | 5.10 | 1.00 | 4.24 | 5/8"-11 | CSDH4.0P304ZP                     |
| 6"                 | 6.500   | 7.44 | 7.26 | 1.25 | 3.75 | 3/4"-10 | CSDH6.0T304ZP                     |
| PVC Coated<br>Pipe | Line OD | H    | L    | W    | CL   | Thread  | Part Number<br>(anchor/tight fit) |
| 1/2"               | 0.920   | 2.29 | 1.93 | 0.75 | 1.55 | 3/8"-16 | CSDH0.50PVP304ZP                  |
| 3/4"               | 1.130   | 2.79 | 2.49 | 0.75 | 1.80 | 3/8"-16 | CSDH0.75PVP304ZP                  |
| 1"                 | 1.395   | 2.79 | 2.49 | 0.75 | 1.80 | 3/8"-16 | CSDH1.0PVP304ZP                   |
| 1 1/4"             | 1.740   | 3.29 | 2.99 | 0.88 | 2.11 | 3/8"-16 | CSDH1.25PVP304ZP                  |
| 1 1/2"             | 1.980   | 3.29 | 2.99 | 0.88 | 2.11 | 3/8"-16 | CSDH1.5PVP304ZP                   |
| 2"                 | 2.455   | 4.36 | 3.36 | 0.88 | 2.92 | 1/2"-13 | CSDH2.0PVP304ZP                   |
| EMT Size           | Line OD | H    | L    | W    | CL   | Thread  | Part Number<br>(anchor/tight fit) |
| 1/2"               | 0.706   | 2.29 | 1.93 | 0.75 | 1.55 | 3/8"-16 | CSDH0.50E304ZP                    |
| 3/4"               | 0.922   | 2.29 | 1.93 | 0.75 | 1.55 | 3/8"-16 | CSDH0.75E304ZP                    |
| 1"                 | 1.163   | 2.79 | 2.49 | 0.75 | 1.80 | 3/8"-16 | CSDH1.0E304ZP                     |
| 1 1/4"             | 1.510   | 2.79 | 2.49 | 0.75 | 1.80 | 3/8"-16 | CSDH1.25E304ZP                    |
| 1 1/2"             | 1.740   | 3.29 | 2.49 | 0.88 | 2.11 | 3/8"-16 | CSDH1.5E304ZP                     |
| 2"                 | 2.197   | 4.36 | 3.36 | 0.88 | 2.92 | 1/2"-13 | CSDH2.0E304ZP                     |

# WELD MOUNT - CSDW

Bottom plate is welded to mounting rod or directly to structure

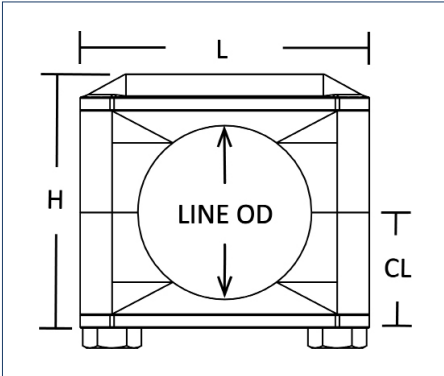
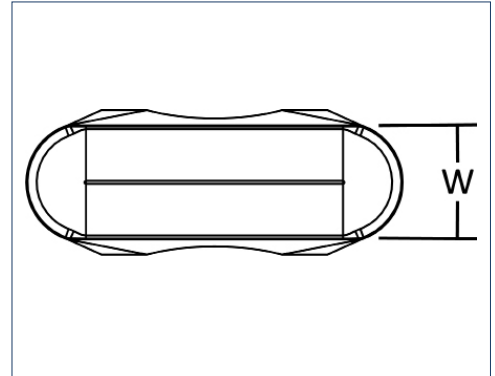


for 316 hardware substitute 304 with 316

| Pipe Size               | Line OD | H    | L    | W    | CL   | Part Number<br>(anchor/tight fit) |
|-------------------------|---------|------|------|------|------|-----------------------------------|
| 1/2"                    | 0.840   | 1.73 | 1.93 | 0.75 | 0.79 | CSDW0.50P304ZP                    |
| 3/4"                    | 1.050   | 1.73 | 1.93 | 0.75 | 0.79 | CSDW0.75P304ZP                    |
| 1"                      | 1.315   | 2.16 | 2.49 | 0.75 | 1.03 | CSDW1.0P304ZP                     |
| 1 1/4"                  | 1.660   | 2.75 | 2.99 | 0.88 | 1.31 | CSDW1.25P304ZP                    |
| 1 1/2"                  | 1.900   | 2.75 | 2.99 | 0.88 | 1.31 | CSDW1.5P304ZP                     |
| 2"                      | 2.375   | 3.25 | 3.36 | 0.88 | 1.47 | CSDW2.0P304ZP                     |
| 2 1/2"                  | 2.875   | 3.68 | 3.74 | 0.88 | 1.77 | CSDW2.5P304ZP                     |
| 3"                      | 3.500   | 4.15 | 4.48 | 1.00 | 2.06 | CSDW3.0P304ZP                     |
| 4"                      | 4.500   | 5.27 | 5.18 | 1.00 | 2.58 | CSDW4.0P304ZP                     |
| 6"                      | 6.500   | 7.19 | 7.73 | 1.25 | 3.60 | CSDW4.0P304ZP                     |
| PVC Coated<br>Pipe Size | Line OD | H    | L    | W    | CL   | Part Number<br>(anchor/tight fit) |
| 1/2"                    | 0.920   | 1.73 | 1.93 | 0.75 | 0.79 | CSDW0.50PVP304ZP                  |
| 3/4"                    | 1.130   | 1.73 | 1.93 | 0.75 | 0.79 | CSDW0.75PVP304ZP                  |
| 1"                      | 1.395   | 2.16 | 2.49 | 0.75 | 1.03 | CSDW1.0PVP304ZP                   |
| 1 1/4"                  | 1.740   | 2.75 | 2.99 | 0.88 | 1.31 | CSDW1.25PVP304ZP                  |
| 1 1/2"                  | 1.980   | 2.75 | 2.99 | 0.88 | 1.31 | CSDW1.5PVP304ZP                   |
| 2"                      | 2.455   | 3.25 | 3.36 | 0.88 | 1.47 | CSDW2.0PVP304ZP                   |
| EMT Size                | Line OD | H    | L    | W    | CL   | Part Number<br>(anchor/tight fit) |
| 1/2"                    | 0.706   | 1.73 | 1.93 | 0.75 | 0.79 | CSDW0.50E304ZP                    |
| 3/4"                    | 0.824   | 1.73 | 1.93 | 0.75 | 0.79 | CSDW0.75E304ZP                    |
| 1"                      | 1.163   | 2.16 | 2.49 | 0.75 | 1.03 | CSDW1.0E304ZP                     |
| 1 1/4"                  | 1.510   | 2.16 | 2.49 | 0.75 | 1.03 | CSDW1.25E304ZP                    |
| 1 1/2"                  | 1.740   | 2.75 | 2.99 | 0.88 | 1.31 | CSDW1.5E304ZP                     |
| 2"                      | 2.197   | 3.25 | 3.36 | 0.88 | 1.47 | CSDW2.0E304ZP                     |

## BASE MOUNT - CSDBM

Weld mounting rod to bottom plate then to mounting plate or structure

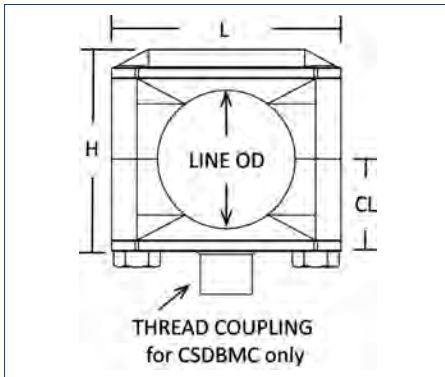
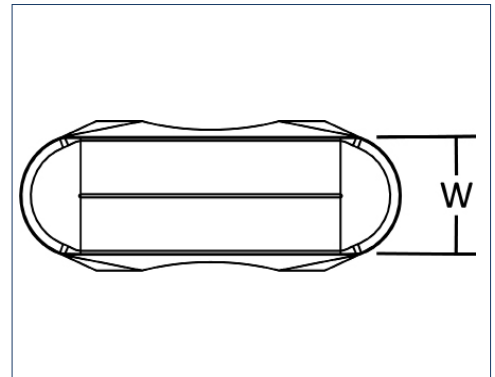


for 316 hardware substitute 304 with 316

| Pipe Size               | Line OD | H    | L    | W    | CL   | Part Number<br>(anchor/tight fit) |
|-------------------------|---------|------|------|------|------|-----------------------------------|
| 1/2"                    | 0.840   | 1.70 | 1.93 | 0.75 | 0.73 | CSDBM0.50P304ZP                   |
| 3/4"                    | 1.050   | 1.70 | 1.93 | 0.75 | 0.73 | CSDBM0.75P304ZP                   |
| 1"                      | 1.315   | 2.19 | 2.49 | 0.75 | 0.97 | CSDBM1.0P304ZP                    |
| 1 1/4"                  | 1.660   | 2.69 | 2.99 | 0.88 | 1.25 | CSDBM1.25P304ZP                   |
| 1 1/2"                  | 1.900   | 2.69 | 2.99 | 0.88 | 1.25 | CSDBM1.5P304ZP                    |
| 2"                      | 2.375   | 3.19 | 3.36 | 0.88 | 1.49 | CSDBM2.0P304ZP                    |
| 2 1/2"                  | 2.875   | 3.63 | 3.74 | 0.88 | 1.71 | CSDBM2.5P304ZP                    |
| PVC Coated<br>Pipe Size | Line OD | H    | L    | W    | CL   | Part Number<br>(anchor/tight fit) |
| 1/2"                    | 0.920   | 1.70 | 1.93 | 0.75 | 0.73 | CSDBM0.50PVP304ZP                 |
| 3/4"                    | 1.130   | 2.19 | 2.49 | 0.75 | 0.97 | CSDBM0.75PVP304ZP                 |
| 1"                      | 1.395   | 2.19 | 2.49 | 0.75 | 0.97 | CSDBM1.0PVP304ZP                  |
| 1 1/4"                  | 1.740   | 2.69 | 2.99 | 0.88 | 1.25 | CSDBM1.25PVP304ZP                 |
| 1 1/2"                  | 1.980   | 2.69 | 2.99 | 0.88 | 1.25 | CSDBM1.5PVP304ZP                  |
| 2"                      | 2.455   | 3.19 | 3.36 | 0.88 | 1.49 | CSDBM2.0PVP304ZP                  |
| EMT Size                | Line OD | H    | L    | W    | CL   | Part Number<br>(anchor/tight fit) |
| 1/2"                    | 0.706   | 1.70 | 1.93 | 0.75 | 0.73 | CSDBM0.50E304ZP                   |
| 3/4"                    | 0.824   | 1.70 | 1.93 | 0.75 | 0.73 | CSDBM0.75E304ZP                   |
| 1"                      | 1.163   | 2.19 | 2.49 | 0.75 | 0.97 | CSDBM1.0E304ZP                    |
| 1 1/4"                  | 1.510   | 2.19 | 2.49 | 0.75 | 0.97 | CSDBM1.25E304ZP                   |
| 1 1/2"                  | 1.740   | 2.69 | 2.99 | 0.88 | 1.25 | CSDBM1.5E304ZP                    |
| 2"                      | 2.197   | 3.19 | 3.36 | 0.88 | 1.49 | CSDBM2.0E304ZP                    |

# BASE MOUNT THREAD COUPLING MOUNT - CSDBMC

FOR ATTACHMENT: Use Syntiro's Shielded Rod, a solid rod with threaded end(s) or an all thread rod

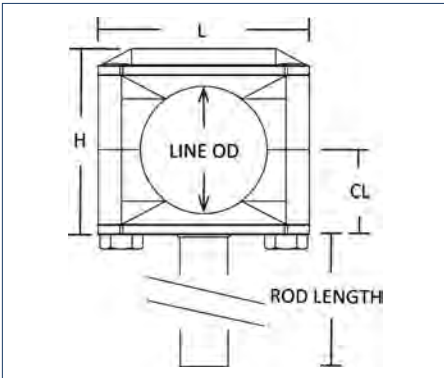
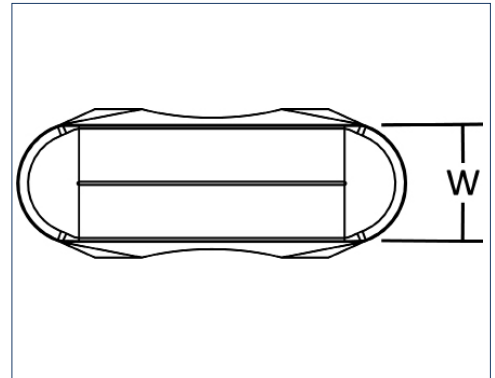


for 316 hardware substitute 304 with 316

| Pipe Size               | Line OD | H    | L    | W    | CL   | Round Coupling |         | Part Number<br>(anchor/tight fit) |
|-------------------------|---------|------|------|------|------|----------------|---------|-----------------------------------|
|                         |         |      |      |      |      | Height         | Thread  |                                   |
| 1/2"                    | 0.840   | 1.70 | 1.93 | 0.75 | 0.73 | 0.47           | 3/8"-16 | CSDBMC0.50P304ZP                  |
| 3/4"                    | 1.050   | 1.70 | 1.93 | 0.75 | 0.73 | 0.47           | 3/8"-16 | CSDBMC0.75P304ZP                  |
| 1"                      | 1.315   | 2.19 | 2.49 | 0.75 | 0.97 | 0.47           | 3/8"-16 | CSDBMC1.0P304ZP                   |
| 1 1/4"                  | 1.660   | 2.69 | 2.99 | 0.88 | 1.25 | 0.47           | 3/8"-16 | CSDBMC1.25P304ZP                  |
| 1 1/2"                  | 1.900   | 2.69 | 2.99 | 0.88 | 1.25 | 0.47           | 3/8"-16 | CSDBMC1.5P304ZP                   |
| 2"                      | 2.375   | 3.19 | 3.36 | 0.88 | 1.49 | 0.59           | 1/2"-13 | CSDBMC2.0P304ZP                   |
| 2 1/2"                  | 2.875   | 3.63 | 3.74 | 0.88 | 1.71 | 0.59           | 1/2"-13 | CSDBMC2.5P304ZP                   |
|                         |         |      |      |      |      |                |         |                                   |
| PVC Coated<br>Pipe Size | Line OD | H    | L    | W    | CL   | Round Coupling |         | Part Number<br>(anchor/tight fit) |
|                         |         |      |      |      |      | Height         | Thread  |                                   |
| 1/2"                    | 0.920   | 1.70 | 1.93 | 0.75 | 0.73 | 0.47           | 3/8"-16 | CSDBMC0.50PVP304ZP                |
| 3/4"                    | 1.130   | 1.70 | 1.93 | 0.75 | 0.73 | 0.47           | 3/8"-16 | CSDBMC0.75PVP304ZP                |
| 1"                      | 1.395   | 2.19 | 2.49 | 0.75 | 0.97 | 0.47           | 3/8"-16 | CSDBMC1.0PVP304ZP                 |
| 1 1/4"                  | 1.740   | 2.69 | 2.99 | 0.88 | 1.25 | 0.47           | 3/8"-16 | CSDBMC1.25PVP304ZP                |
| 1 1/2"                  | 1.980   | 2.69 | 2.99 | 0.88 | 1.25 | 0.47           | 3/8"-16 | CSDBMC1.5PVP304ZP                 |
| 2"                      | 2.455   | 3.19 | 3.36 | 0.88 | 1.49 | 0.59           | 1/2"-13 | CSDBMC2.0PVP304ZP                 |
|                         |         |      |      |      |      |                |         |                                   |
| EMT Size                | Line OD | H    | L    | W    | CL   | Round Coupling |         | Part Number<br>(anchor/tight fit) |
|                         |         |      |      |      |      | Height         | Thread  |                                   |
| 1/2"                    | 0.706   | 1.70 | 1.93 | 0.75 | 0.73 | 0.47           | 3/8"-16 | CSDBMC0.50E304ZP                  |
| 3/4"                    | 0.922   | 1.70 | 1.93 | 0.75 | 0.73 | 0.47           | 3/8"-16 | CSDBMC0.75E304ZP                  |
| 1"                      | 1.163   | 2.19 | 2.49 | 0.75 | 0.97 | 0.47           | 3/8"-16 | CSDBMC1.0E304ZP                   |
| 1 1/4"                  | 1.510   | 2.19 | 2.49 | 0.75 | 0.97 | 0.47           | 3/8"-16 | CSDBMC1.25E304ZP                  |
| 1 1/2"                  | 1.740   | 2.69 | 2.99 | 0.88 | 1.25 | 0.47           | 3/8"-16 | CSDBMC1.5E304ZP                   |
| 2"                      | 2.197   | 3.19 | 3.36 | 0.88 | 1.49 | 0.59           | 1/2"-13 | CSDBMC2.0E304ZP                   |

## BASE MOUNT ROD MOUNT - CSDBMR

Hanger's rod is welded to mounting plate or structure (rod lengths can be supplied per specification)

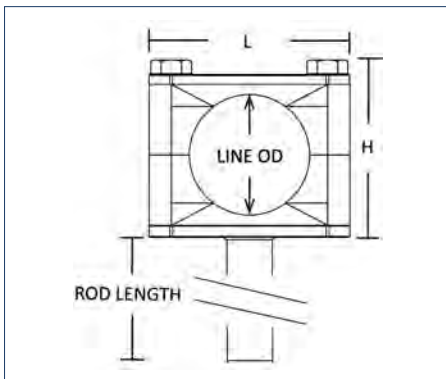
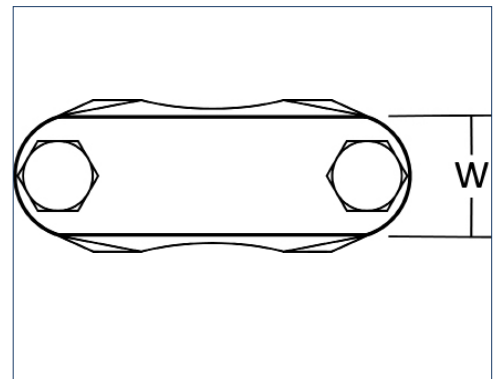


for 316 hardware substitute 304 with 316

| Pipe Size               | Line OD | H    | L    | W    | CL   | Rod (stock length) |      | Part Number<br>(anchor/tight fit) |
|-------------------------|---------|------|------|------|------|--------------------|------|-----------------------------------|
|                         |         |      |      |      |      | Length             | OD   |                                   |
| 1/2"                    | 0.840   | 1.70 | 1.93 | 0.75 | 0.73 | 6                  | 0.38 | CSDBM6R0.50P304ZP                 |
| 3/4"                    | 1.050   | 1.70 | 1.93 | 0.75 | 0.73 | 6                  | 0.38 | CSDBM6R0.75P304ZP                 |
| 1"                      | 1.315   | 2.19 | 2.49 | 0.75 | 0.97 | 6                  | 0.38 | CSDBM6R1.0P304ZP                  |
| 1 1/4"                  | 1.660   | 2.69 | 2.99 | 0.88 | 1.25 | 6                  | 0.38 | CSDBM6R1.25P304ZP                 |
| 1 1/2"                  | 1.900   | 2.69 | 2.99 | 0.88 | 1.25 | 6                  | 0.38 | CSDBM6R1.5P304ZP                  |
| 2"                      | 2.375   | 3.19 | 3.36 | 0.88 | 1.49 | 6                  | 0.50 | CSDBM6R2.0P304ZP                  |
| 2 1/2"                  | 2.875   | 3.63 | 3.74 | 0.88 | 1.71 | 6                  | 0.50 | CSDBM6R2.5P304ZP                  |
|                         |         |      |      |      |      |                    |      |                                   |
| PVC Coated<br>Pipe Size | Line OD | H    | L    | W    | CL   | Rod (stock length) |      | Part Number<br>(anchor/tight fit) |
|                         |         |      |      |      |      | Length             | OD   |                                   |
| 1/2"                    | 0.920   | 1.70 | 1.93 | 0.75 | 0.73 | 6                  | 0.38 | CSDBM6R0.50PVP304ZP               |
| 3/4"                    | 1.130   | 1.70 | 1.93 | 0.75 | 0.73 | 6                  | 0.38 | CSDBM6R0.75PVP304ZP               |
| 1"                      | 1.395   | 2.19 | 2.49 | 0.75 | 0.97 | 6                  | 0.38 | CSDBM6R1.0PVP304ZP                |
| 1 1/4"                  | 1.740   | 2.69 | 2.99 | 0.88 | 1.25 | 6                  | 0.38 | CSDBM6R1.25PVP304ZP               |
| 1 1/2"                  | 1.980   | 2.69 | 2.99 | 0.88 | 1.25 | 6                  | 0.38 | CSDBM6R1.5PVP304ZP                |
| 2"                      | 2.455   | 3.19 | 3.36 | 0.88 | 1.49 | 6                  | 0.50 | CSDBM6R2.0PVP304ZP                |
|                         |         |      |      |      |      |                    |      |                                   |
| EMT Size                | Line OD | H    | L    | W    | CL   | Rod (stock length) |      | Part Number<br>(anchor/tight fit) |
|                         |         |      |      |      |      | Length             | OD   |                                   |
| 1/2"                    | 0.706   | 1.70 | 1.93 | 0.75 | 0.73 | 6                  | 0.38 | CSDBM6R0.50E304ZP                 |
| 3/4"                    | 0.922   | 1.70 | 1.93 | 0.75 | 0.73 | 6                  | 0.38 | CSDBM6R0.75E304ZP                 |
| 1"                      | 1.163   | 2.19 | 2.49 | 0.75 | 0.97 | 6                  | 0.38 | CSDBM6R1.0E304ZP                  |
| 1 1/4"                  | 1.510   | 2.19 | 2.49 | 0.75 | 0.97 | 6                  | 0.38 | CSDBM6R1.25E304ZP                 |
| 1 1/2"                  | 1.740   | 2.69 | 2.99 | 0.88 | 1.25 | 6                  | 0.38 | CSDBM6R1.5E304ZP                  |
| 2"                      | 2.197   | 3.19 | 3.36 | 0.88 | 1.49 | 6                  | 0.50 | CSDBM6R2.0E304ZP                  |

# ROD MOUNT - 6" ROD TO WELD PLATE MOUNT - CSDWR

(rod lengths also supplied per specification)

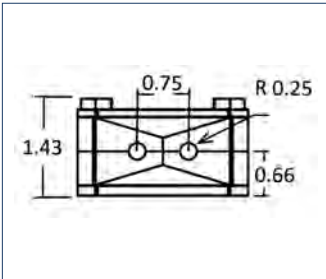
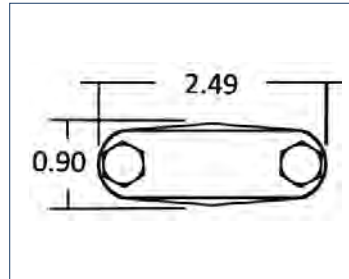
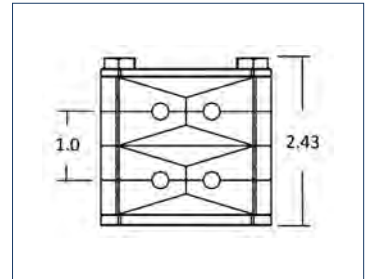


for 316 hardware substitute 304 with 316

| Pipe Size                | Line OD | H    | L    | W    | CL   | Rod (stock length) |      | Part Number<br>(anchor/tight fit) |
|--------------------------|---------|------|------|------|------|--------------------|------|-----------------------------------|
|                          |         |      |      |      |      | Length             | OD   |                                   |
| 1/2"                     | 0.840   | 1.73 | 1.93 | 0.75 | 0.79 | 6                  | 0.38 | CSDW6R0.50P304ZP                  |
| 3/4"                     | 1.050   | 1.73 | 1.93 | 0.75 | 0.79 | 6                  | 0.38 | CSDW6R0.75P304ZP                  |
| 1"                       | 1.315   | 2.16 | 2.49 | 0.75 | 1.03 | 6                  | 0.38 | CSDW6R1.0P304ZP                   |
| 1 1/4"                   | 1.660   | 2.75 | 2.99 | 0.88 | 1.31 | 6                  | 0.38 | CSDW6R1.25P304ZP                  |
| 1 1/2"                   | 1.900   | 2.75 | 2.99 | 0.88 | 1.31 | 6                  | 0.38 | CSDW6R1.5P304ZP                   |
| 2"                       | 2.375   | 3.25 | 3.36 | 0.88 | 1.47 | 6                  | 0.50 | CSDW6R2.0P304ZP                   |
| 2 1/2"                   | 2.875   | 3.68 | 3.74 | 0.88 | 1.77 | 6                  | 0.50 | CSDW6R2.5P304ZP                   |
| 3"                       | 3.500   | 4.15 | 4.48 | 1.00 | 2.06 | 6                  | 0.50 | CSDW6R2.0P304ZP                   |
| 4"                       | 4.500   | 5.27 | 5.18 | 1.00 | 2.58 | 6                  | 0.63 | CSDW6R4.0P304ZP                   |
| 6"                       | 6.500   | 7.19 | 7.73 | 1.25 | 3.60 | 6                  | 0.75 | CSDW6R6.0P304ZP                   |
| Pipe Coated<br>Pipe Size | Line OD | H    | L    | W    | CL   | Rod (stock length) |      | Part Number<br>(anchor/tight fit) |
|                          |         |      |      |      |      | Length             | OD   |                                   |
| 1/2"                     | 0.920   | 1.73 | 1.93 | 0.75 | 0.79 | 6                  | 0.38 | CSDW6R0.50PVP304ZP                |
| 3/4"                     | 1.130   | 2.16 | 2.49 | 0.75 | 1.03 | 6                  | 0.38 | CSDW6R0.75PVP304ZP                |
| 1"                       | 1.395   | 2.16 | 2.49 | 0.75 | 1.03 | 6                  | 0.38 | CSDW6R1.0PVP304ZP                 |
| 1 1/4"                   | 1.740   | 2.75 | 2.99 | 0.88 | 1.31 | 6                  | 0.38 | CSDW6R1.25PVP304ZP                |
| 1 1/2"                   | 1.980   | 2.75 | 2.99 | 0.88 | 1.31 | 6                  | 0.38 | CSDW6R1.5PVP304ZP                 |
| 2"                       | 2.455   | 3.25 | 3.36 | 0.88 | 1.47 | 6                  | 0.50 | CSDW6R2.0PVP304ZP                 |
|                          |         |      |      |      |      |                    |      |                                   |
| EMT Size                 | Line OD | H    | L    | W    | CL   | Rod (stock length) |      | Part Number<br>(anchor/tight fit) |
|                          |         |      |      |      |      | Length             | OD   |                                   |
| 1/2"                     | 0.706   | 1.73 | 1.93 | 0.75 | 0.79 | 6                  | 0.38 | CSDW6R0.50E304ZP                  |
| 3/4"                     | 0.922   | 1.73 | 1.93 | 0.75 | 0.79 | 6                  | 0.38 | CSDW6R0.75E304ZP                  |
| 1"                       | 1.163   | 2.16 | 2.49 | 0.75 | 1.03 | 6                  | 0.38 | CSDW6R1.0E304ZP                   |
| 1 1/4"                   | 1.510   | 2.16 | 2.49 | 0.75 | 1.03 | 6                  | 0.38 | CSDW6R1.25E304ZP                  |
| 1 1/2"                   | 1.740   | 2.75 | 2.99 | 0.88 | 1.31 | 6                  | 0.38 | CSDW6R1.5E304ZP                   |

## INSTRUMENTATION LINE DUAL SUPPORT - CSDD

Offered in all CSD Series hardware mounting configurations

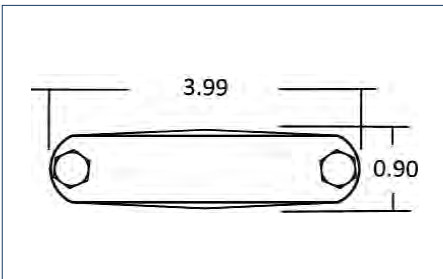
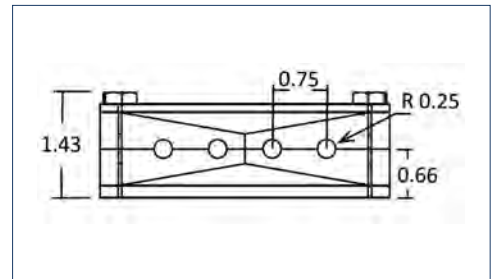


for 316 hardware substitute 304 with 316

| Tube Size | Line OD | Part Number       | Stack of 2 (up to 4) |
|-----------|---------|-------------------|----------------------|
| 1/4"      | 0.25    | CSDWD0.25T2/304SA | CSDWD0.25T2/2/304SA  |

## INSTRUMENTATION LINE QUAD SUPPORT - CSDQ

Offered in all CSD Series hardware mounting configurations



for 316 hardware substitute 304 with 316

| Tube Size | Line OD | Part Number       | Stack of 2 (up to 4, so /2/, /3/, and /4/) |
|-----------|---------|-------------------|--------------------------------------------|
| 1/4"      | 0.25    | CSDWQ0.25T4/304SA | CSDWQ0.25T2/2/304SA                        |
| Cable     | 0.33    | CSDWQ0.33T4/304SA | CSDWQ0.33T2/2/304SA                        |
| 1/2"      | 0.50    | CSDWQ0.50T4/304SA | CSDWQ0.50T2/2/304SA                        |

## INSTRUMENTATION LINE PLUGS ILP's



| Tube Size | Line OD | Part Number |
|-----------|---------|-------------|
| 1/4"      | 0.25    | ILP025      |
| Cable     | 0.33    | ILP033      |
| 1/2"      | 0.50    | ILP050      |

# PROCESS HEX HANGERS - PHH SERIES TUBE AND PIPE HANGERS

## APPLICATIONS:

- Cleanrooms and mechanical areas, including but not limited to the biotech, pharmaceutical, food processing, beverage, dairy, cosmetic, chemical, water treatment, and semiconductor industries

## LINE TYPES AND SUPPORT RANGE:

- 1/2" - 6" Pipe
- 1/2" - 6" Tube

## MATERIALS:

- 304 and 316 stainless steels – for 316, replace 304 with 316 in the part number
- ZERO PUDDLE™ inserts are FDA grade silicone rubber

## SPECIFICATIONS:

- Intermittent temperatures from -40F to 320F
- Continuous temperatures from -20F to 302F - Contact Syntiro with continuous application's environmental details

## BENEFITS:

- ZERO PUDDLE™ Silicone inserts' raised geometry facilitates drainage of liquids on vertical/riser lines, reducing maintenance downtime
- Drainable and Cleanable
- No exposed threads or openings in hardware plates
- Carriage bolt's square shank locks into Hardware Frame's square hole, allowing the installer to use a single wrench, unlike the antiquated Entrapping Hex Hanger, which requires two wrenches, increasing safety concerns and installation time
- Carriage bolts are reversible, so rounded drainable surface is always on the hangers topside
- Welding a rod to the PHHW weld plate? Consider using the PHH6R hanger
- PHHC's hangers threads and PHHR's rods match MSS 69 rod OD requirements



### NEW PEDESTAL 1" & 2" HIGH MOUNTS

- Offers material and labor savings
- Includes ZERO CAULK™ technology
- Also available with CSDW style



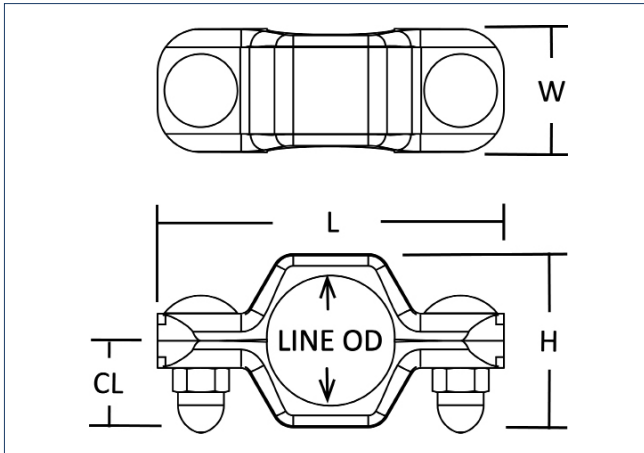
## ZERO PUDDLE INSERT



If you cannot see it, reach it, clean it, or sample it, this could be a concerning pathogen harbor point.

# PROCESS HEX HANGER WELD MOUNT - PHHW

Mounting rod is welded to PHH's frame



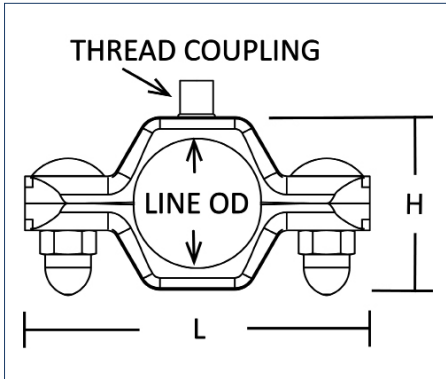
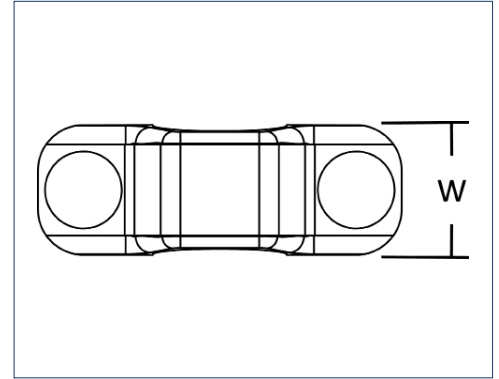
for 316 hardware substitute 304 with 316

| Tube Size | Line OD | H    | L    | W    | CL   | Part Number w/ Acorn Nut | Part Number w/ Lock Nut * |
|-----------|---------|------|------|------|------|--------------------------|---------------------------|
| 1/2"      | 0.50    | 1.15 | 2.80 | 1.10 | 0.58 | PHHW0.50T304SAN          | PHHW0.50T304SLN           |
| 3/4"      | 0.75    | 1.15 | 2.80 | 1.10 | 0.58 | PHHW0.75T304SAN          | PHHW0.75T304SLN           |
| 1"        | 1.00    | 1.45 | 3.00 | 1.10 | 0.73 | PHHW1.0T304SAN           | PHHW1.0T304SLN            |
| 1 1/2"    | 1.50    | 1.96 | 4.00 | 1.42 | 0.98 | PHHW1.5T304SAN           | PHHW1.5T304SLN            |
| 2"        | 2.00    | 2.50 | 4.60 | 1.42 | 1.25 | PHHW2.0T304SAN           | PHHW2.0T304SLN            |
| 2 1/2"    | 2.50    | 3.00 | 5.10 | 1.42 | 1.50 | PHHW2.5T304SAN           | PHHW2.5T304SLN            |
| 3"        | 3.00    | 3.50 | 5.60 | 1.42 | 1.75 | PHHW3.0T304SAN           | PHHW3.0T304SLN            |
| 4"        | 4.00    | 4.55 | 6.75 | 1.42 | 2.28 | PHHW4.0T304SAN           | PHHW4.0T304SLN            |
| 6"        | 6.00    | 6.49 | 9.00 | 1.48 | 3.25 | PHHW6.0T304SAN           | PHHW6.0T304SLN            |
| Pipe Size | Line OD | H    | L    | W    | CL   | Part Number w/ Acorn Nut | Part Number w/ Lock Nut * |
| 1/2"      | 0.840   | 1.45 | 3.00 | 1.10 | 0.73 | PHHW0.50P304SAN          | PHHW0.50P304SLN           |
| 3/4"      | 1.050   | 1.45 | 3.00 | 1.10 | 0.73 | PHHW0.75P304SAN          | PHHW0.75P304SLN           |
| 1"        | 1.315   | 1.96 | 4.00 | 1.42 | 0.98 | PHHW1.0P304SAN           | PHHW1.0P304SLN            |
| 1 1/4"    | 1.660   | 2.50 | 4.60 | 1.42 | 1.25 | PHHW1.25P304SAN          | PHHW1.25P304SLN           |
| 1 1/2"    | 1.900   | 2.50 | 4.60 | 1.42 | 1.25 | PHHW1.5P304SAN           | PHHW1.5P304SLN            |
| 2"        | 2.375   | 3.00 | 5.10 | 1.42 | 1.50 | PHHW2.0P304SAN           | PHHW2.0P304SLN            |
| 2 1/2"    | 2.875   | 3.50 | 5.60 | 1.42 | 1.75 | PHHW2.5P304SAN           | PHHW2.5P304SLN            |
| 3"        | 3.500   | 4.13 | 6.33 | 1.42 | 2.07 | PHHW3.0P304SAN           | PHHW3.0P304SLN            |
| 4"        | 4.500   | 5.07 | 7.52 | 1.42 | 2.54 | PHHW4.0P304SAN           | PHHW4.0P304SLN            |
| 6"        | 6.625   | 7.20 | 9.25 | 1.74 | 3.60 | PHHW6.0P304SAN           | PHHW6.0P304SLN            |

\* Lock Nuts for lines with vibration

# PROCESS HEX HANGER COUPLING - PHHC

FOR ATTACHMENT: Use Syntiro's Shielded Rod, solid rod with threaded end(s) or all thread rod



for 316 hardware substitute 304 with 316

| Tube Size | Line OD | H    | L    | W    | Round Coupling |         | Part Number<br>w/ Acorn Nut | Part Number<br>w/ Lock Nut * |
|-----------|---------|------|------|------|----------------|---------|-----------------------------|------------------------------|
|           |         |      |      |      | Height         | Thread  |                             |                              |
| 1/2"      | 0.50    | 1.15 | 2.80 | 1.10 | 0.50           | 3/8"-16 | PHHC0.50T304SAN             | PHHC0.50T304SLN              |
| 3/4"      | 0.75    | 1.15 | 2.80 | 1.10 | 0.50           | 3/8"-16 | PHHC0.75T304SAN             | PHHC0.75T304SLN              |
| 1"        | 1.00    | 1.45 | 3.00 | 1.10 | 0.50           | 3/8"-16 | PHHC1.0T304SAN              | PHHC1.0T304SLN               |
| 1 1/2"    | 1.50    | 1.96 | 4.00 | 1.42 | 0.50           | 3/8"-16 | PHHC1.5T304SAN              | PHHC1.5T304SLN               |
| 2"        | 2.00    | 2.50 | 4.60 | 1.42 | 0.50           | 3/8"-16 | PHHC2.0T304SAN              | PHHC2.0T304SLN               |
| 2 1/2"    | 2.50    | 3.00 | 5.10 | 1.42 | 0.59           | 1/2"-13 | PHHC2.5T304SAN              | PHHC2.5T304SLN               |
| 3"        | 3.00    | 3.50 | 5.60 | 1.42 | 0.59           | 1/2"-13 | PHHC3.0T304SAN              | PHHC3.0T304SLN               |
| 4"        | 4.00    | 4.55 | 6.75 | 1.42 | 0.59           | 1/2"-13 | PHHC4.0T304SAN              | PHHC4.0T304SLN               |
| 6"        | 6.00    | 6.49 | 9.00 | 1.48 | 0.88           | 3/4"-10 | PHHC6.0T304SAN              | PHHC6.0T304SLN               |
| Pipe Size | Line OD | H    | L    | W    | Round Coupling |         | Part Number<br>w/ Acorn Nut | Part Number<br>w/ Lock Nut * |
|           |         |      |      |      | Height         | Thread  |                             |                              |
| 1/2"      | 0.840   | 1.45 | 3.00 | 1.10 | 0.50           | 3/8"-16 | PHHC0.50P304SAN             | PHHC0.50P304SLN              |
| 3/4"      | 1.050   | 1.45 | 3.00 | 1.10 | 0.50           | 3/8"-16 | PHHC0.75P304SAN             | PHHC0.75P304SLN              |
| 1"        | 1.315   | 1.96 | 4.00 | 1.42 | 0.50           | 3/8"-16 | PHHC1.0P304SAN              | PHHC1.0P304SLN               |
| 1 1/4"    | 1.660   | 2.50 | 4.60 | 1.42 | 0.50           | 3/8"-16 | PHHC1.25P304SAN             | PHHC1.25P304SLN              |
| 1 1/2"    | 1.900   | 2.50 | 4.60 | 1.42 | 0.50           | 3/8"-16 | PHHC1.5P304SAN              | PHHC1.5P304SLN               |
| 2"        | 2.375   | 3.00 | 5.10 | 1.42 | 0.59           | 1/2"-13 | PHHC2.0P304SAN              | PHHC2.0P304SLN               |
| 2 1/2"    | 2.875   | 3.50 | 5.60 | 1.42 | 0.59           | 1/2"-13 | PHHC2.5P304SAN              | PHHC2.5P304SLN               |
| 3"        | 3.500   | 4.13 | 6.33 | 1.42 | 0.59           | 1/2"-13 | PHHC3.0P304SAN              | PHHC3.0P304SLN               |
| 4"        | 4.500   | 5.07 | 7.52 | 1.42 | 0.59           | 1/2"-13 | PHHC4.0P304SAN              | PHHC4.0P304SLN               |
| 6"        | 6.625   | 7.20 | 9.25 | 1.74 | 0.88           | 3/4"-10 | PHHC6.0P304SAN              | PHHC6.0P304SLN               |

\* Lock Nuts for lines with vibration

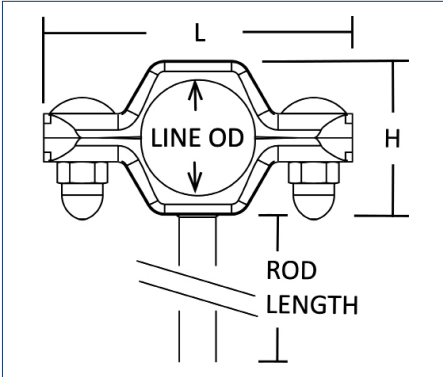
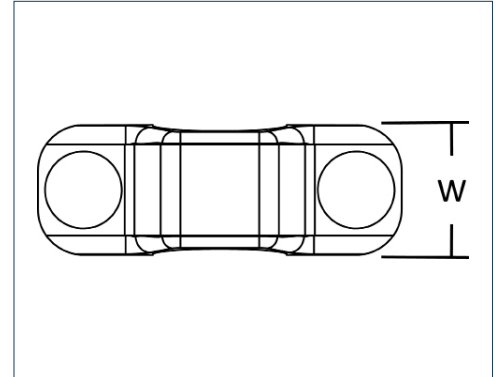


## SHIELDED ALL THREAD ROD

- LDPE sleeve covers the stock 6' section of all thread
- Quick cut to length in field
- Utility knife removes LDPE exposing threads

# PROCESS HEX HANGER ROD MOUNT - PHHR

Hanger's rod is welded to mounting plate or structure  
(rod lengths also supplied per specification)



for 316 hardware substitute 304 with 316

| Tube Size | Line OD | H    | L    | W    | Rod (stock length) |      | Part Number<br>w/ Acorn Nut | Part Number<br>w/ Lock Nut * |
|-----------|---------|------|------|------|--------------------|------|-----------------------------|------------------------------|
|           |         |      |      |      | Length             | OD   |                             |                              |
| 1/2"      | 0.50    | 1.15 | 2.80 | 1.10 | 6                  | 0.38 | PHH6R0.50T304SAN            | PHH6R0.50T304SLN             |
| 3/4"      | 0.75    | 1.15 | 2.80 | 1.10 | 6                  | 0.38 | PHH6R0.75T304SAN            | PHH6R0.75T304SLN             |
| 1"        | 1.00    | 1.45 | 3.00 | 1.10 | 6                  | 0.38 | PHH6R1.0T304SAN             | PHH6R1.0T304SLN              |
| 1 1/2"    | 1.50    | 1.96 | 4.00 | 1.42 | 6                  | 0.38 | PHH6R1.5T304SAN             | PHH6R1.5T304SLN              |
| 2"        | 2.00    | 2.50 | 4.60 | 1.42 | 6                  | 0.38 | PHH6R2.0T304SAN             | PHH6R2.0T304SLN              |
| 2 1/2"    | 2.50    | 3.00 | 5.10 | 1.42 | 6                  | 0.50 | PHH6R2.5T304SAN             | PHH6R2.5T304SLN              |
| 3"        | 3.00    | 3.50 | 5.60 | 1.42 | 6                  | 0.50 | PHH6R3.0T304SAN             | PHH6R3.0T304SLN              |
| 4"        | 4.00    | 4.55 | 6.75 | 1.42 | 6                  | 0.50 | PHH6R4.0T304SAN             | PHH6R4.0T304SLN              |
| 6"        | 6.00    | 6.40 | 9.00 | 1.48 | 6                  | 0.75 | PHH6R6.0T304SAN             | PHH6R6.0T304SLN              |
| Pipe Size | Line OD | H    | L    | W    | Rod (stock length) |      | Part Number<br>w/ Acorn Nut | Part Number<br>w/ Lock Nut * |
|           |         |      |      |      | Length             | OD   |                             |                              |
| 1/2"      | 0.840   | 1.45 | 3.00 | 1.10 | 6                  | 0.38 | PHH6R0.50P304SAN            | PHH6R0.50P304SLN             |
| 3/4"      | 1.050   | 1.45 | 3.00 | 1.10 | 6                  | 0.38 | PHH6R0.75P304SAN            | PHH6R0.75P304SLN             |
| 1"        | 1.315   | 1.96 | 4.00 | 1.42 | 6                  | 0.38 | PHH6R1.0P304SAN             | PHH6R1.0P304SLN              |
| 1 1/4"    | 1.660   | 2.50 | 4.60 | 1.42 | 6                  | 0.38 | PHH6R1.25P304SAN            | PHH6R1.25P304SLN             |
| 1 1/2"    | 1.900   | 2.50 | 4.60 | 1.42 | 6                  | 0.38 | PHH6R1.5P304SAN             | PHH6R1.5P304SLN              |
| 2"        | 2.375   | 3.00 | 5.10 | 1.42 | 6                  | 0.50 | PHH6R2.0P304SAN             | PHH6R2.0P304SLN              |
| 2 1/2"    | 2.875   | 3.50 | 5.60 | 1.42 | 6                  | 0.50 | PHH6R2.5P304SAN             | PHH6R2.5P304SLN              |
| 3"        | 3.500   | 4.13 | 6.33 | 1.42 | 6                  | 0.50 | PHH6R3.0P304SAN             | PHH6R3.0P304SLN              |
| 4"        | 4.500   | 5.07 | 7.52 | 1.42 | 6                  | 0.63 | PHH6R4.0P304SAN             | PHH6R4.0P304SLN              |
| 6"        | 6.625   | 7.20 | 9.25 | 1.74 | 6                  | 0.75 | PHH6R6.0P304SAN             | PHH6R6.0P304SLN              |

\* Lock Nuts for lines with vibration

# ZERO CAULK™ - ZC SERIES - ZCB BRACKET

Eliminates Caulk

## MOUNTING:

- Blindside - Insulated Metal Panels IMP's, Square Tubes, Framing... use Jack Nut/rievet nut
- Openside - Gypsum Board, Beams, Plates, Cement... use backside backing plate with lock nuts

## APPLICATIONS:

- Cleanrooms and mechanical areas, including but not limited to the biotech, pharmaceutical, food processing, beverage, dair, cosmetic, chemical, water treatment, and semiconductor industries
- Access to all surfaces for cleaning, wiping, and inspection, as required under the 2011 Food Safety Modernization Act.

## LINE TYPES AND SUPPORT RANGE:

- 1/2" - 2" Pipe
- 1/2" - 2" PVC Coated Pipe
- 1/2" - 2" EMT Thin Walled Stainless Tubing Conduits
- 1/8" - 6" Tube

## MATERIALS:

- 304 and 316 stainless steels – for 316, replace 304 with 316 in the part number
- FDA grade Silicone Rubber Gaskets with Silver Ion/Anti-Bacterial agent

## FEATURES:

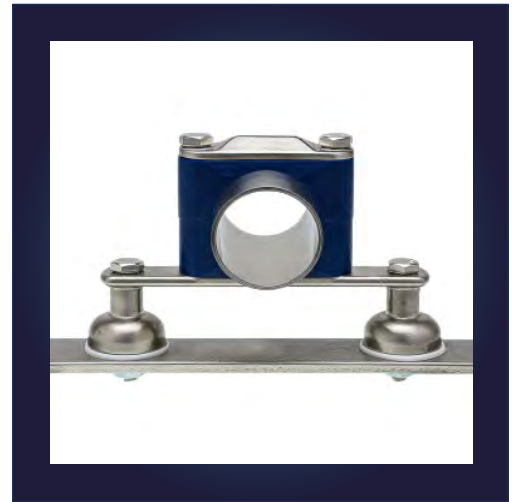
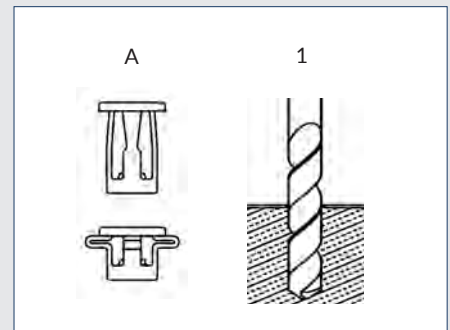
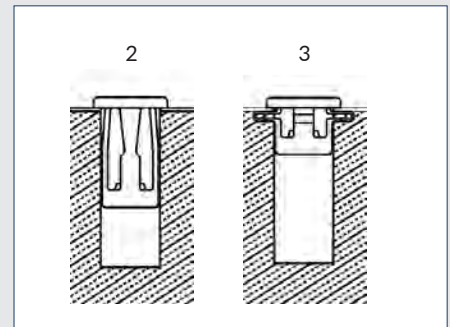
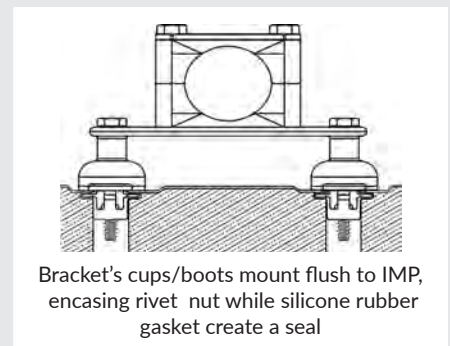
- Silicone Rubber Plugs/Gasket creates a drainable and cleanable seal to surface
- Silicone Rubber Gasket eliminates the use of caulk - caulk will breakdown over time creating voids
- Silver ion additive is blended in the FDA grade Silicone Rubber Gaskets, impeding bacterial, mold, and fungus from forming on the gasket
- IPX5 certification – ensuring the bracket can withstand water jets from any direction
- One-inch bracket height – enhances the efficiency and inspectability of the washing and wipe-down process
- Jack Nut's tensile strengths are over 820 pounds
- ZERO PUDDLE™ Silicone inserts' raised geometry facilitates drainage of liquids on vertical/riser lines, reducing maintenance downtime

## GRAPHICS: A FEW MINUTES PROCESS

- A. Stock and actuated Rivet Nut
1. Drill 7/16" hole into IMP
2. Rivet nut placed in hole
3. Rivet nut actuated and secured to IMP via

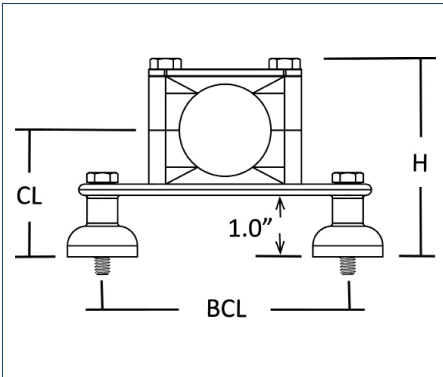
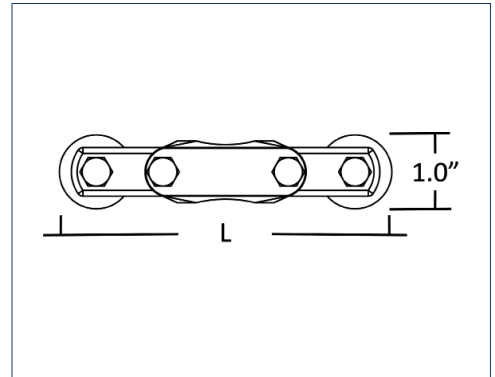
MARSON, M39043 MJN-2 JACK NUT INSERT TOOL

Refer to [www.syntirocorp.com](http://www.syntirocorp.com) or call Syntiro for most up to date information



# ZERO CAULK™ BRACKET -

Silicone rubber gasket seals to surfaces, no gaps



| Pipe Size               | Line OD | H    | L    | W    | CL    | BCL  | Part Number<br>(anchor/tight fit) |
|-------------------------|---------|------|------|------|-------|------|-----------------------------------|
| 1/2"                    | 0.840   | 2.87 | 4.77 | 1.00 | 1.875 | 4.00 | ZCB0.50P304ZP4.0                  |
| 3/4"                    | 1.050   | 2.87 | 4.77 | 1.00 | 1.875 | 4.00 | ZCB0.75P304ZP4.0                  |
| 1"                      | 1.315   | 3.37 | 4.77 | 1.00 | 2.125 | 4.00 | ZCB1.0P304ZP4.0                   |
| 1 1/4"                  | 1.660   | 3.89 | 4.77 | 1.00 | 2.375 | 4.00 | ZCB1.25P304ZP4.0                  |
| 1 1/2"                  | 1.900   | 3.89 | 4.77 | 1.00 | 2.375 | 4.00 | ZCB1.5P304ZP4.0                   |
| 2"                      | 2.375   | 4.39 | 4.48 | 1.00 | 2.575 | 4.50 | ZCB2.0P304ZP                      |
| PVC Coated<br>Pipe Size | Line OD | H    | L    | W    | CL    | BCL  | Part Number<br>(anchor/tight fit) |
| 1/2"                    | 0.920   | 2.87 | 4.77 | 1.00 | 1.875 | 4.00 | ZCB0.50PVP304ZP4.0                |
| 3/4"                    | 1.130   | 3.37 | 4.77 | 1.00 | 2.125 | 4.00 | ZCB0.75PVP304ZP4.0                |
| 1"                      | 1.395   | 3.37 | 4.77 | 1.00 | 2.125 | 4.00 | ZCB1.0PVP304ZP4.0                 |
| 1 1/4"                  | 1.740   | 3.89 | 4.77 | 1.00 | 2.375 | 4.00 | ZCB1.25PVP304ZP4.0                |
| 1 1/2"                  | 1.980   | 3.89 | 4.77 | 1.00 | 2.375 | 4.00 | ZCB1.50PVP304ZP4.0                |
| 2"                      | 2.455   | 4.39 | 4.48 | 1.00 | 2.575 | 4.50 | ZCB1.25PVP304ZP                   |
| EMT Size                | Line OD | H    | L    | W    | CL    | BCL  | Part Number<br>(anchor/tight fit) |
| 1/2"                    | 0.706   | 2.87 | 4.77 | 1.00 | 1.875 | 4.00 | ZCB0.50E304ZP4.0                  |
| 3/4"                    | 0.824   | 2.87 | 4.77 | 1.00 | 1.875 | 4.00 | ZCB0.75E304ZP4.0                  |
| 1"                      | 1.163   | 3.37 | 4.77 | 1.00 | 2.125 | 4.00 | ZCB1.0E304ZP4.0                   |
| 1 1/4"                  | 1.510   | 3.37 | 4.77 | 1.00 | 2.125 | 4.00 | ZCB1.25E304ZP4.0                  |
| 1 1/2"                  | 1.740   | 3.37 | 4.77 | 1.00 | 2.125 | 4.00 | ZCB1.50E304ZP4.0                  |
| 2"                      | 2.197   | 4.39 | 4.48 | 1.00 | 2.575 | 4.50 | ZCB2.0E304ZP4.0                   |



# ZERO CAULK™ - ZC SERIES - ZCUB UNIVERSAL BRACK-

## Eliminates Caulk

### MOUNTING:

- Blindside Walls - Insulated Metal Panels IMP's, Square Tubes, Framing... use Jack Nut/rievet nut
- Openside Walls - Cleanroom Wall Panels, Gypsum Board, Beams, Plates, Cement... use backside backing plate with lock nuts

### APPLICATIONS:

- Cleanrooms and mechanical areas, including but not limited to the biotech, pharmaceutical, food processing, beverage, dairy, cosmetic, chemical, water treatment, and semiconductor industries.
- Access to all surfaces for cleaning, wiping, and inspection, as required under the 2011 Food Safety Modernization Act.

### LINE TYPES AND SUPPORT RANGE:

Offered with either CSDW or PHHW housings

- 1/2" - 2" Pipe
- 1/2" - 2" PVC Coated Pipe
- 1/2" - 2" EMT Thin Walled Stainless Tubing Conduits
- 1/8" - 6" Tube

### MATERIALS:

- 304 and 316 stainless steels – for 316, replace 304 with 316 in the part number
- FDA grade Silicone Rubber Gaskets with Silver Ion/Anti-Bacterial agent

### FEATURES:

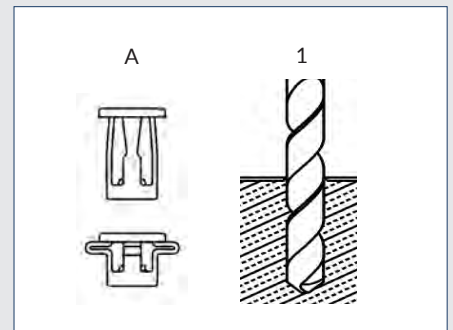
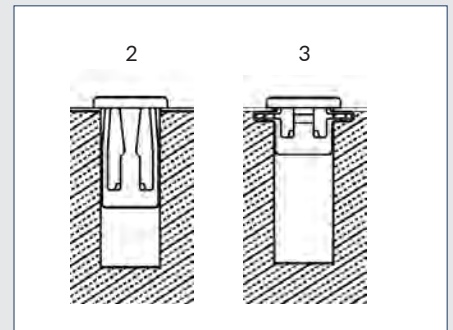
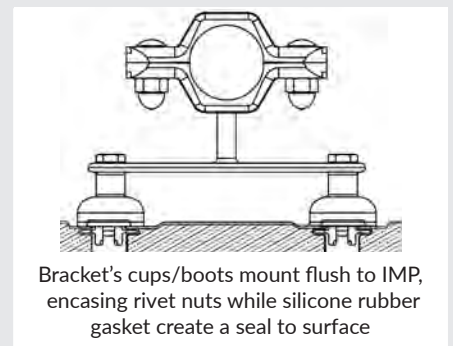
- Silicone Rubber Gasket eliminates the use of caulk - caulk will breakdown over time creating voids
- Silicone Rubber Plugs/Gasket creates a drainable and cleanable seal to surface
- Silver ion additive is blended in the FDA grade Silicone Rubber Gaskets, impeding bacterial, mold, and fungus from forming on the gasket
- IPX5 certification – ensuring the bracket can withstand water jets from any direction
- One-inch bracket height – enhances the efficiency and inspectability of the washing and wipe-down process
- ZERO PUDDLE™ Silicone inserts' raised geometry facilitates drainage of liquids on vertical/riser lines, reducing maintenance downtime

### GRAPHICS: A FEW MINUTES PROCESS

- Stock and actuated Rivet Nut
- Drill 7/16" hole into IMP
  - Rivet nut placed in hole
  - Rivet nut actuated and secured to IMP via

MARSON, M39043 MJN-2 JACK NUT INSERT TOOL

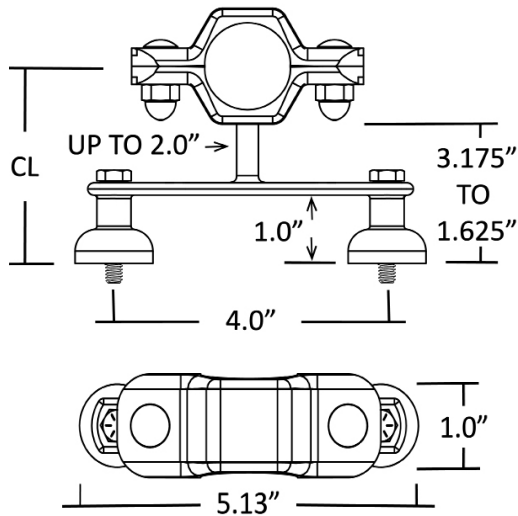
Refer to [www.syntirocorp.com](http://www.syntirocorp.com) or call Syntiro for most up to date information



# ZERO CAULK™ UNIVERSAL MOUNT BRACKET - ZCUB

Silicone rubber gasket seals to surfaces, no gaps

## PHHW & CSDW MOUNT TO ZCUB



| Pipe Size            | Line OD | Center Line ** | Hanger Housing Type                                                                                     | Tube or Pipe Direction                                                                 | Part Number (anchor/tight fit) |
|----------------------|---------|----------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------|
| 1/2"                 | 0.840   | ???            | When Building Part Number<br><br>ZCUBC when CSDW is welded to rod &<br>ZCUBP when PHHW is welded to rod | (P) Perpendicular/Criss Cross<br>or<br>(H) Horizontal/In Line to ZCUP's Mounting Bolts | ZCUBP0.50P/304CL?..?P or H     |
| 3/4"                 | 1.050   | ???            |                                                                                                         |                                                                                        | ZCUBP0.75P304CL?..?P or H      |
| 1"                   | 1.315   | ???            |                                                                                                         |                                                                                        | ZCUBP1.0P304CL?..?P or H       |
| 1 1/4"               | 1.660   | ???            |                                                                                                         |                                                                                        | ZCUBP1.25P304CL?..?P or H      |
| 1 1/2"               | 1.900   | ???            |                                                                                                         |                                                                                        | ZCUBP1.5P304CL?..?P or H       |
| 2"                   | 2.375   | ???            |                                                                                                         |                                                                                        | ZCUBP2.0P304CL?..?P or H       |
| PVC Coated Pipe Size | Line OD | Center Line ** | Hanger Housing Type                                                                                     | Tube or Pipe Direction                                                                 | Part Number (anchor/tight fit) |
| 1/2"                 | 0.920   | ???            | When Building Part Number<br><br>ZCUBC when CSDW is welded to rod &<br>ZCUBP when PHHW is welded to rod | (P) Perpendicular/Criss Cross<br>or<br>(H) Horizontal/In Line to ZCUP's Mounting Bolts | ZCUBC0.50PVP304CL?..?P or H    |
| 3/4"                 | 1.130   | ???            |                                                                                                         |                                                                                        | ZCUBC0.75PVP304CL?..?P or H    |
| 1"                   | 1.395   | ???            |                                                                                                         |                                                                                        | ZCUBC1.0PVP304CL?..?P or H     |
| 1 1/4"               | 1.740   | ???            |                                                                                                         |                                                                                        | ZCUBC1.5PVP304CL?..?P or H     |
| 1 1/2"               | 1.980   | ???            |                                                                                                         |                                                                                        | ZCUBC2.0PVP304CL?..?P or H     |
| 2"                   | 2.460   | ???            |                                                                                                         |                                                                                        | ZCUBC2.0PVP304CL?..?P or H     |
| EMT Size             | Line OD | Center Line ** | Hanger Housing Type                                                                                     | Tube or Pipe Direction                                                                 | Part Number (anchor/tight fit) |
| 1/2"                 | 0.706   | ???            | When Building Part Number<br><br>ZCUBC when CSDW is welded to rod &<br>ZCUBP when PHHW is welded to rod | (P) Perpendicular/Criss Cross<br>or<br>(H) Horizontal/In Line to ZCUP's Mounting Bolts | ZCUBC0.50E304CL?..?P or H      |
| 3/4"                 | 0.824   | ???            |                                                                                                         |                                                                                        | ZCUBC0.75E304CL?..?P or H      |
| 1"                   | 1.163   | ???            |                                                                                                         |                                                                                        | ZCUBC1.0E304CL?..?P or H       |
| 1 1/4"               | 1.510   | ???            |                                                                                                         |                                                                                        | ZCUBC1.25E304CL?..?P or H      |
| 1 1/2"               | 1.740   | ???            |                                                                                                         |                                                                                        | ZCUBC1.5E304CL?..?P or H       |
| 2"                   | 2.197   | ???            |                                                                                                         |                                                                                        | ZCUBC2.0E304CL?..?P or H       |

\*\* CENTERLINE length ??? is supplied by customer in inches.

Part Number example uses a ZERO PUDDLE CSDW HOUSING, PVC Coated Pipe only available in CSD Style  
Supporting 1" PVC Coated Pipe at a 2.25" CL with pipe's line of direction PERPENDICULAR/CRISS CROSS to ZCUB's Mounting Bolts =  
ZCUBP1.0PVP316CL2.25P

# ZERO CAULK™ - ZCUP UNIVERSAL MOUNT PLATE MINI

Eliminates Caulk, silicone rubber gasket seals to surfaces, no gaps

## MOUNTING:

- Blindside Walls - Insulated Metal Panels IMP's, Square Tubes, Framing... use Jack Nut/rievet nut
- Openside Walls - Cleanroom Wall Panels, Gypsum Board, Beams, Plates, Cement... use backside backing plate with lock nuts

## APPLICATIONS:

- Cleanrooms and mechanical areas, including but not limited to the biotech, pharmaceutical, food processing, beverage, dairy, cosmetic, chemical, water treatment, and semiconductor industries
- Access to all surfaces for cleaning, wiping, and inspection, as required under the 2011 Food Safety Modernization Act.

## LINE TYPES AND SUPPORT RANGE:

Offered with either CSDW or PHHW housings

- 1/2" - 1 1/2" Pipe
- 1/2" - 1 1/2" PVC Coated Pipe
- 1/2" - 1 1/2" EMT Thin Walled Stainless Tubing Conduits
- 1/8" - 2" Tube

## MATERIALS:

- 304 and 316 stainless steels – for 316, replace 304 with 316 in the part number
- FDA grade Silicone Rubber Gaskets with Silver Ion/Anti-Bacterial agent

## FEATURES:

- Silicone Rubber Gasket eliminates the use of caulk - caulk will breakdown over time creating voids
- Silicone Rubber Plugs/Gasket creates a drainable and cleanable seal to surface
- Silver ion additive is blended in the FDA grade Silicone Rubber Gaskets, impeding bacterial, mold, and fungus from forming on the gasket
- IPX5 certification – ensuring the bracket can withstand water jets from any direction
- One-inch bracket height – enhances the efficiency and inspectability of the washing and wipe-down process
- ZERO PUDDLE™ Silicone inserts' raised geometry facilitates drainage of liquids on vertical/riser lines, reducing maintenance downtime

## GRAPHICS: A FEW MINUTES PROCESS

- A. Stock and actuated Rivet Nut
1. Drill 7/16" hole into IMP
2. Rivet nut placed in hole
3. Rivet nut actuated and secured to IMP via

MARSON, M39043 MJN-2 JACK NUT INSERT TOOL

Refer to [www.syntirocorp.com](http://www.syntirocorp.com) or call Syntiro for most up to date information

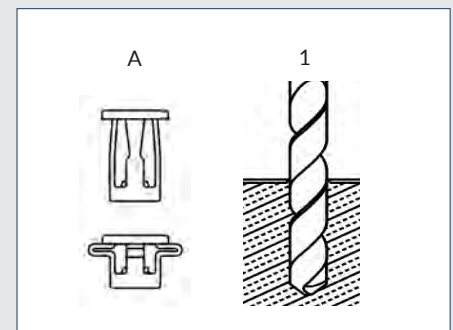
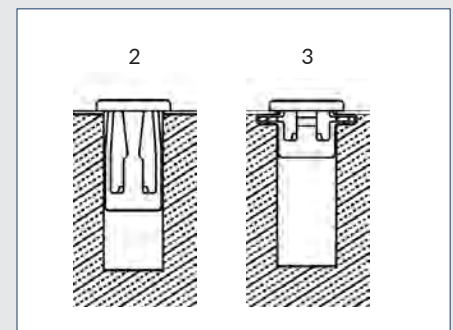
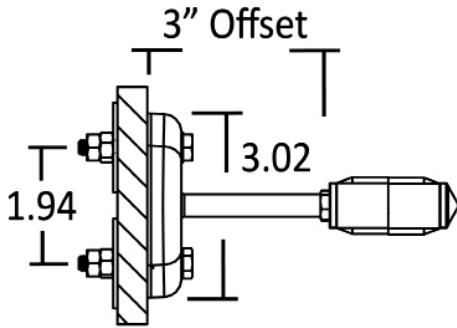
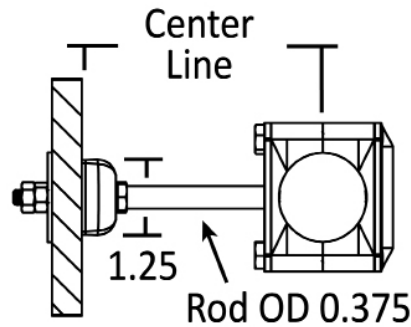


Plate mount flush to IMP,  
encasing rivet nuts while silicone rubber  
gasket create a seal to surface

# ZERO CAULK™ UNIVERSAL PLATE - ZCUP MINI

- Mount CSD & PHH Series of hangers
- Rod length can be decreased or increased



| Pipe Size | Line OD | Center Line ** | Hanger Housing Type                                                                                     | Tube or Pipe Direction                                                              | Using CSDW - Part Number (anchor/tight fit)<br>Guides are also available |
|-----------|---------|----------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 1/2"      | 0.840   | ???            | When Building Part Number<br><br>ZCUBC when CSDW is welded to rod &<br>ZCUBP when PHHW is welded to rod | (P) Perpendicular/Criss Cross or<br>(H) Horizontal/In Line to ZCUP's Mounting Bolts | ZCUPP0.50P304CL?..?P or H                                                |
| 3/4"      | 1.050   | ???            |                                                                                                         |                                                                                     | ZCUPP0.75P304CL?..?P or H                                                |
| 1"        | 1.315   | ???            |                                                                                                         |                                                                                     | ZCUPP1.0P304CL?..?P or H                                                 |
| 1 1/4"    | 1.660   | ???            |                                                                                                         |                                                                                     | ZCUP1.25P304CL?..?P or H                                                 |
| 1 1/2"    | 1.900   | ???            |                                                                                                         |                                                                                     | ZCUPC1.5P304CL?..?P or H                                                 |

\*\* CENTERLINE length ??? is supplied by customer in inches \*\*

Part Number example uses a PROCESS HEX HANGER PHHW MOUNT

Supporting 1/2" Pipe at a 2.13" CL with Pipe's line of direction PERPENDICULAR/CRISS CROSS with ZCUB's Mounting Bolts = ZCUPP0.75P304CL2.13P

| PVC Coated Pipe Size | Line OD | Center Line ** | Hanger Housing Type                                                                                       | Tube or Pipe Direction                                                              | Using CSDW - Part Number (anchor/tight fit)<br>Guides are also available |
|----------------------|---------|----------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 1/2"                 | 0.920   | ???            | When Building Part Number<br><br>ZCUBC when CSDW is welded to rod<br><br>PHH Series not offered PVP sizes | (P) Perpendicular/Criss Cross or<br>(H) Horizontal/In Line to ZCUP's Mounting Bolts | ZCUPC0.50PVP304CL?..?P or H                                              |
| 3/4"                 | 1.130   | ???            |                                                                                                           |                                                                                     | ZCUPC0.75PVP304CL?..?P or H                                              |
| 1"                   | 1.395   | ???            |                                                                                                           |                                                                                     | ZCUPC1.0PVP304CL?..?P or H                                               |
| 1 1/4"               | 1.740   | ???            |                                                                                                           |                                                                                     | ZCUPC1.25PVP304CL?..?P or H                                              |
| 1 1/2"               | 1.980   | ???            |                                                                                                           |                                                                                     | ZCUPC1.5PVP304CL?..?P or H                                               |

\*\* CENTERLINE length ??? is supplied by customer in inches \*\*

Part Number example uses a ZERO PUDDLE CSDW HOUSING, PVC Coated Pipe only available in CSD Style

Supporting 1" PVC Conduit at a 2.0" CL with Pipe's line of direction HORIZONTAL/IN-LINE with ZCUB's Mounting Bolts = ZCUPC1.0PVP304CL2.0H

| EMT Size | Line OD | Center Line ** | Hanger Housing Type                                                                                          | Tube or Pipe Direction                                                              | Using PHHW - Part Number (anchor/tight fit) |
|----------|---------|----------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------|
| 1/2"     | 0.706   | ???            | When Building Part Number<br><br>ZCUBC when CSDW is welded to rod<br><br>PHH Series not offered in EMT sizes | (P) Perpendicular/Criss Cross or<br>(H) Horizontal/In Line to ZCUP's Mounting Bolts | ZCUPP0.50E304CL?..?P or H                   |
| 3/4"     | 0.922   | ???            |                                                                                                              |                                                                                     | ZCUPP0.75E304CL?..?P or H                   |
| 1"       | 1.163   | ???            |                                                                                                              |                                                                                     | ZCUPP1.0E304CL?..?P or H                    |
| 1 1/4"   | 1.510   | ???            |                                                                                                              |                                                                                     | ZCUPP1.5E304CL?..?P or H                    |
| 1 1/2"   | 1.740   | ???            |                                                                                                              |                                                                                     | ZCUPP2.0E304CL?..?P or H                    |

\*\* CENTERLINE length ??? is supplied by customer in inches \*\*

Part Number example uses a ZERO PUDDLE CSDW HOUSING, EMT Pipe only available in CSD Style

Supporting 3/4" EMT Conduit at a 1.75" CL with Pipe's line of direction HORIZONTAL/IN-LINE with ZCUB's Mounting Bolts = ZCUPC0.75E304CL1.75H

# ZERO CAULK™ - ZC SERIES - ZCUP UNIVERSAL MOUNTING PLATE

Eliminates Caulk, silicone rubber gasket seals to surfaces, no gaps

## MOUNTING:

- Blindside Walls - Insulated Metal Panels IMP's, Square Tubes, Framing... use Jack Nut/rivet nut
- Openside Walls - Cleanroom Wall Panels, Gypsum Board, Beams, Plates, Cement... use backside backing plate with lock nuts

## APPLICATIONS:

- Cleanrooms and mechanical areas, including but not limited to the biotech, pharmaceutical, food processing, beverage, dairy, cosmetic, chemical, water treatment, and semiconductor industries
- Access to all surfaces for cleaning, wiping, and inspection, as required under the 2011 Food Safety Modernization Act.

## LINE TYPES AND SUPPORT RANGE:

Offered with either CSDW or PHHW housings

- 1/2" - 2 1/2" Pipe
- 1/8" - 3" Tube

## MATERIALS:

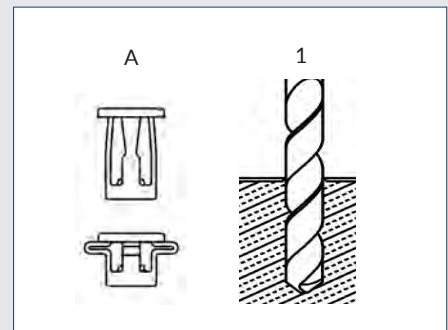
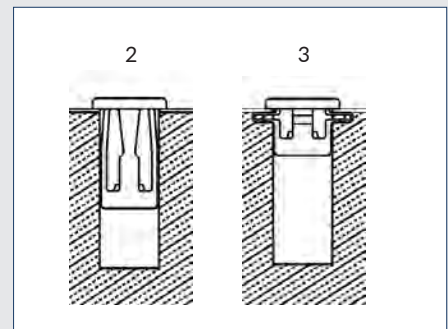
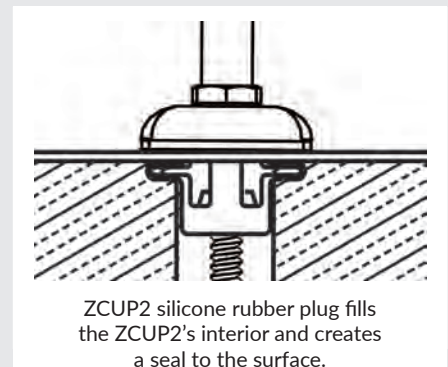
- 304 and 316 stainless steels – for 316, replace 304 with 316 in the part number
- FDA grade Silicone Rubber Gaskets with Silver Ion/Anti-Bacterial Agent

## FEATURES:

- Silicone Rubber Gasket eliminates the use of caulk - caulk will breakdown over time creating voids
- Silicone Rubber Plugs/Gasket creates a drainable and cleanable seal to surface
- Silver ion additive is blended in the FDA grade Silicone Rubber Gaskets, impeding bacterial, mold, and fungus from forming on the gasket
- IPX5 certification – ensuring the bracket can withstand water jets from any direction
- One-inch bracket height – enhances the efficiency and inspectability of the washing and wipe-down process
- ZERO PUDDLE™ Silicone inserts' raised geometry facilitates drainage of liquids on vertical/riser lines, reducing maintenance downtime

## GRAPHICS: A FEW MINUTES PROCESS

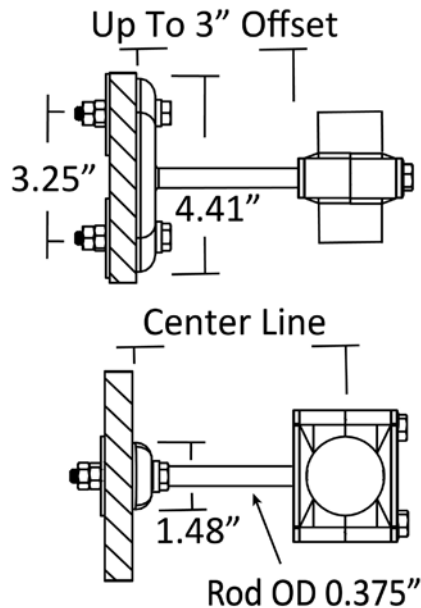
- A. Stock and actuated Rivet Nut
1. Drill 7/16" hole into IMP
2. Rivet nut placed in hole
3. Rivet nut actuated and secured to IMP via  
MARSON, M39043 MJN-2 JACK NUT INSERT TOOL



Refer to [www.syntirocorp.com](http://www.syntirocorp.com) or call Syntiro for most up to date information

# ZERO CAULK™ UNIVERSAL PLATE - ZCUP

- Mount CSD & PHH Series of hangers
- Rod length can be decreased or increased



| Tube Size | Line OD | Center Line ** | Hanger Housing Type                                                                                     | Tube or Pipe Direction                                                                                                                                       | Part Number (anchor/tight fit) Guides are available with CSDWs |
|-----------|---------|----------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| 1/4"      | 0.25    | ???            | When Building Part Number<br><br>ZCUPC when CSDW is welded to rod &<br>ZCUPP when PHHW is welded to rod | (P) When the Tube Runs Perpendicular/Criss Cross to the ZCUP's Mounting Bolt<br>or<br>(H) When the Tube Runs Horizontal/In Line to the ZCUP's Mounting Bolts | ** ZCUPC0.25T304CL?..?P or H                                   |
| 3/8"      | 0.38    | ???            |                                                                                                         |                                                                                                                                                              | ** ZCUPC0.38T304CL?..?P or H                                   |
| 1/2"      | 0.50    | ???            |                                                                                                         |                                                                                                                                                              | ZCUP(C or P)0.50T304CL?..?P or H                               |
| 3/4"      | 0.75    | ???            |                                                                                                         |                                                                                                                                                              | ZCUP(C or P)0.75T304CL?..?P or H                               |
| 1"        | 1.00    | ???            |                                                                                                         |                                                                                                                                                              | ZCUP(C or P)1.0T304CL?..?P or H                                |
| 1 1/2"    | 1.50    | ???            |                                                                                                         |                                                                                                                                                              | ZCUP(C or P)1.5T304CL?..?P or H                                |
| 2"        | 2.00    | ???            |                                                                                                         |                                                                                                                                                              | ZCUP(C or P)2.0T304ZP?..?P or H                                |
| 2 1/2"    | 2.50    | ???            |                                                                                                         |                                                                                                                                                              | ZCUP(C or P)2.5T304ZP?..?P or H                                |
| 3"        | 3.00    | ???            |                                                                                                         |                                                                                                                                                              | ZCUP(C or P)3.0T304ZP?..?P or H                                |
| Pipe Size | Line OD | Center Line ** | Hanger Housing Type                                                                                     | Tube or Pipe Direction                                                                                                                                       | Part Number (anchor/tight fit) Guides are available with CSDWs |
| 1/2"      | 0.840   | ???            | When Building Part Number<br><br>ZCUPC when CSDW is welded to rod &<br>ZCUPP when PHHW is welded to rod | (P) When the Pipe Runs Perpendicular/Criss Cross to the ZCUP's Mounting Bolt<br>or<br>(H) When the Pipe Runs Horizontal/In Line to the ZCUP's Mounting Bolts | ZCUP(C or P)0.50P304CL?..?P or H                               |
| 3/4"      | 1.050   | ???            |                                                                                                         |                                                                                                                                                              | ZCUP(C or P)0.75P304CL?..?P or H                               |
| 1"        | 1.315   | ???            |                                                                                                         |                                                                                                                                                              | ZCUP(C or P)1.0P304CL?..?P or H                                |
| 1.25"     | 1.660   | ???            |                                                                                                         |                                                                                                                                                              | ZCUP(C or P)1.25P304CL?..?P or H                               |
| 1 1/2"    | 1.900   | ???            |                                                                                                         |                                                                                                                                                              | ZCUP(C or P)1.5P304CL?..?P or H                                |
| 2"        | 2.375   | ???            |                                                                                                         |                                                                                                                                                              | ZCUP(C or P)2.0P304CL?..?P or H                                |
| 2 1/2"    | 2.875   | ???            |                                                                                                         |                                                                                                                                                              | ZCUP(C or P)2.5P304CL?..?P or H                                |

CENTERLINE length ??? is supplied by customer in inches.

Supporting 3/4" OD Tube at a 2.125" CL with Tube's line of direction HORIZONTAL/IN-LINE with ZCUB's Mounting Bolts = ZCUP2C0.75T304CL2.125H

CENTERLINE length ??? is supplied by customer in inches.

Supporting 1.0" Pipe at a 1.5" CL with Pipe's line of direction PERPENDICULAR/CRISS CROSS with ZCUB's Mounting Bolts = ZCUP2P1.0P304CL1.25P

\*\* 1/4" and 3/8" tube sizes are not available in PHH style hangers

# ZERO CAULK™ SPACERS - ZCS Series

Eliminates Caulk

## MOUNTING:

- Blindside - Insulated Metal Panels IMP's, Square Tubes, Framing... use Jack Nut/riivet nut
- Openside - Gypsum Board, Beams, Plates, Cement... use backside backing plate with lock nuts

## APPLICATIONS:

- Cleanrooms and mechanical areas; not limited to: biotech, pharmaceutical, food processing, beverage, dairy, cosmetic, chemical, water treatment, and semi-conductor industries.
- Low flow & low pressure systems with moderate vibration: WFI, SIP, CIP, process, utility & instrument lines, WFI, SIP, CIP, process, utilities & instrument lines
- The use of spacers enables access to all surfaces for cleaning, wiping, and inspection, as required under the 2011 Food Safety Modernization Act.

## SIZES:

- Support Range: 1/4" - 3" Tube and 1/2" - 2" Pipe for Copper and PVC Coated Pipe and EMT Conduit contact Syntiro
- Tight fit Anchors and loose fit Guides are offered

## FEATURES:

- Silicone Rubber Gasket eliminates the use of caulk - caulk will breakdown over time creating voids
- Silver ion additive is blended in the FDA grade Silicone Rubber Gaskets, impeding bacterial, mold, fungus from forming on the gasket
- Silicone Rubber Gasket creates a drainable and cleanable seal to surface
- Jack Nut's tensile strengths are over 820 pounds
- ZERO PUDDLE™ Silicones inserts raised geometry facilitates drainage of liquids on vertical/riser lines reducing maintenance downtime
- There are no exposed threads or openings

## MATERIALS:

- 316 stainless steels

## GRAPHICS: A FEW MINUTES PROCESS

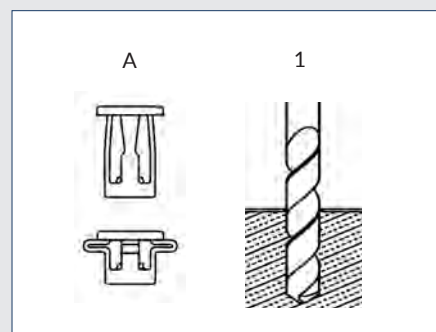
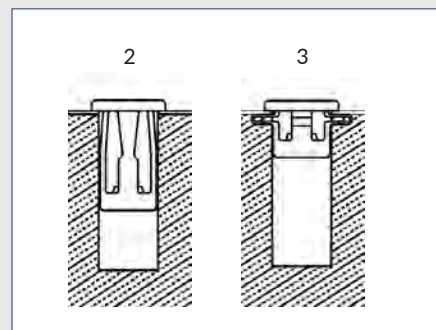
A. Stock and actuated Rivet Nut

1. Drill 7/16" hole into IMP

2. Rivet nut placed in hole

3. Rivet nut actuated and secured to IMP via

MARSON, M390043 MJN-2 JACK NUT INSERT TOOL



Refer to [www.syntirocorp.com](http://www.syntirocorp.com) or call Syntiro for most up to date information

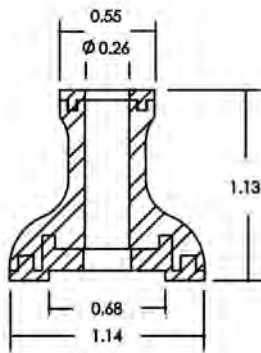
# ZERO CAULK™ 1" & 2" WALL TO COMPONENT - ZCS, SPACERS

Silicone rubber gasket seals to surfaces, no gaps

**ZC1S-025**

1" SPACER

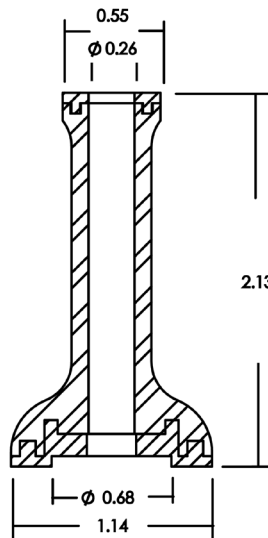
UP TO 1/4" THREAD



**ZC2S-025**

2" SPACER

UP TO 1/4" THREAD



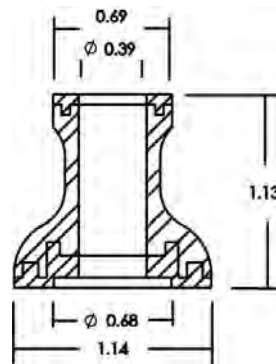
**ZC1S-038**

1" SPACER

UP TO 3/8" THREAD

with 1/4" Gaskets

**ZC1S-038-025**



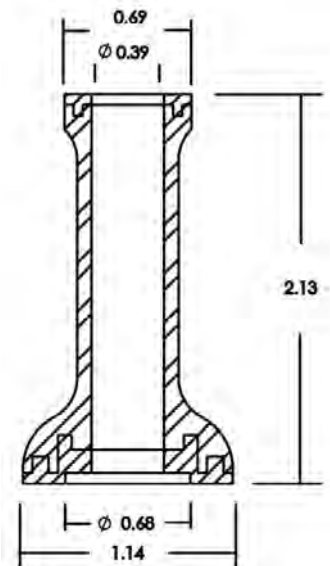
**ZC2S-038**

2" SPACER

UP TO 3/8" THREAD

with 1/4" Gaskets

**ZC2S-038-025**



# ZERO CAULK™ - ZC SERIES - 1" & 2" PEDESTAL w/ CSD HANGERS

Eliminates Caulk

## MOUNTING:

- Blindside Walls - Insulated metal panels IMP's, square tubes, framing... use jack nut/rivet nut
- Openside Walls - Cleanroom Wall Panels, Gypsum Board, Beams, Plates, Cement... use backside backing plate with lock nuts

## APPLICATIONS:

- Cleanrooms and mechanical areas, including but not limited to the biotech, pharmaceutical, food processing, beverage, dairy, cosmetic, chemical, water treatment, and semiconductor industries.
- Low flow & low pressure systems with moderate vibration: WFI, SIP, CIP, process, utility & instrument lines, WFI, SIP, CIP, process, utilities & instrument lines
- The use of spacers enables access to all surfaces for cleaning, wiping, and inspection, as required under the 2011 Food Safety Modernization Act.

## LINE TYPES AND SUPPORT RANGE:

Offered with either CSDW or PHHW housings

- 1/2" - 1 1/2" Pipe
- 1/2" - 1 1/2" PVC Coated Pipe
- 1/2" - 1 1/2" EMT Thin Walled Stainless Tubing Conduits
- 1/8" - 2" Tube

## MATERIALS:

- 304 and 316 stainless steels – for 316, replace 304 with 316 in the part number
- FDA grade Silicone Rubber Gaskets with Silver ion additive

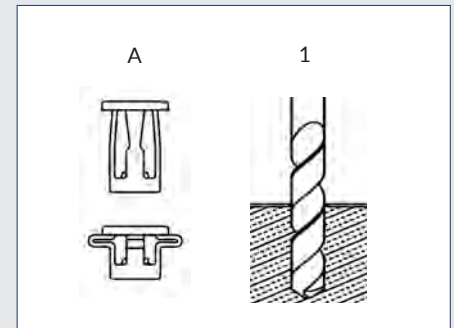
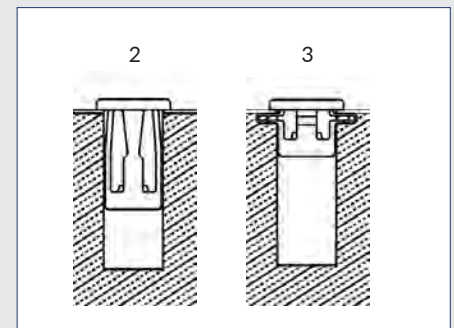
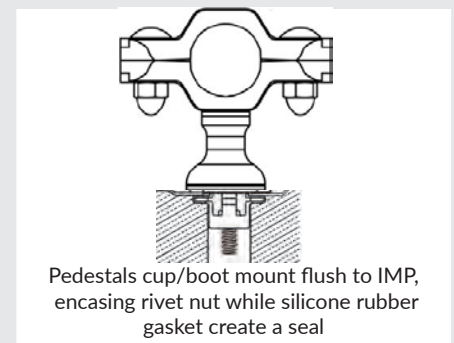
## FEATURES:

- Silicone Rubber Gasket eliminates the use of caulk - caulk will breakdown over time creating voids
- ZERO PUDDLE™ Silicone Rubber Plug/Gasket creates a drainable and cleanable seal to surface
- Silver ion additive is blended in the FDA grade Silicone Rubber Gaskets, impeding bacterial, mold, fungus from forming on the gasket
- Jack Nut's tensile strengths are over 820 pounds
- No exposed threads or openings

## GRAPHICS: A FEW MINUTES PROCESS

- A. Stock and actuated Rivet Nut
1. Drill 7/16" hole into IMP
2. Rivet nut placed in hole
3. Rivet nut actuated and secured to IMP via

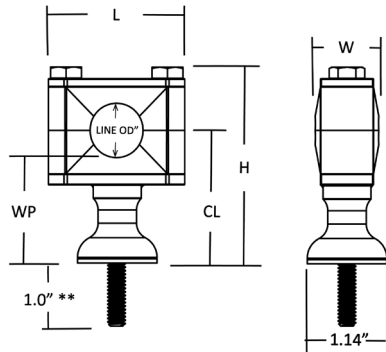
MARSON, M39043 MJN-2 JACK NUT INSERT TOOL



Refer to [www.syntirocorp.com](http://www.syntirocorp.com) or call Syntiro for most up to date information

# ZERO CAULK™ - ZC SERIES - 1" & 2" PEDESTAL w/ CSD HANGERS

Silicone rubber gasket seals to surfaces, no gaps



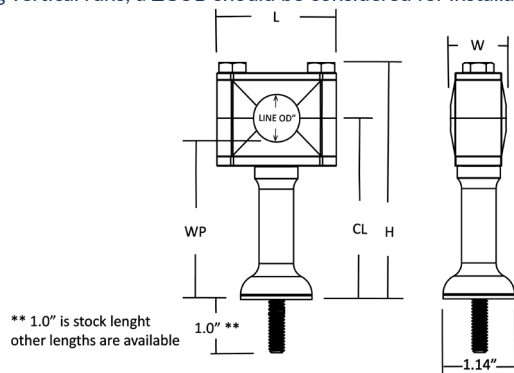
\*\* 1.0" is stock length  
other lengths are available



\*\* 2" & 3" section of 1/4"-20 thread are standards, other lengths are available

| Pipe Size          | Line OD | H    |      | L    | W    | CL   |      | WP   |      | 1" Spacer - Part Number<br>(tight fit) | 2" Spacer - Part Number<br>(tight fit) |
|--------------------|---------|------|------|------|------|------|------|------|------|----------------------------------------|----------------------------------------|
|                    |         | 1"   | 2"   |      |      | 1"   | 2"   | 1"   | 2"   |                                        |                                        |
| 1/2"               | 0.840   | 2.63 | 3.63 | 1.93 | 0.75 | 1.88 | 2.88 | 1.52 | 2.52 | ZC1PC0.50P304ZP                        | ZC2PC0.50P304ZP                        |
| 3/4"               | 1.050   | 2.63 | 3.63 | 1.93 | 0.75 | 1.88 | 2.88 | 1.33 | 2.33 | ZC1PC0.75P304ZP                        | ZC2PC0.75304ZP                         |
| 1"                 | 1.315   | 3.07 | 4.07 | 2.49 | 0.75 | 2.15 | 3.15 | 1.52 | 2.52 | ZC1PC1.0P304ZP                         | ZC2PC1.0P304ZP                         |
| 1 1/4"             | 1.660   | 3.65 | 4.65 | 2.99 | 0.88 | 2.39 | 3.39 | 1.57 | 2.57 | ZC1PC1.25P304ZP *                      | ZC2PC.25P304ZP *                       |
| 1 1/2"             | 1.900   | 3.65 | 4.65 | 2.99 | 0.88 | 2.39 | 3.39 | 1.45 | 3.45 | ZC1PC1.5P304ZP *                       | ZC2PC1.5P304ZP *                       |
| PVC Coated<br>Pipe | Line OD | H    |      | L    | W    | CL   |      | WP   |      | 1" Spacer - Part Number<br>(tight fit) | 2" Spacer - Part Number<br>(tight fit) |
|                    |         | 1"   | 2"   |      |      | 1"   | 2"   | 1"   | 2"   |                                        |                                        |
| 1/2"               | 0.920   | 2.63 | 3.63 | 1.93 | 0.75 | 1.88 | 2.88 | 1.43 | 2.43 | ZC1PC0.50PVP304ZP                      | ZC2PC0.50PVP304ZP                      |
| 3/4"               | 1.130   | 3.16 | 4.16 | 2.49 | 0.75 | 2.15 | 3.15 | 1.56 | 2.56 | ZC1PC0.75PVP304ZP                      | ZC2PC0.75PVP304ZP                      |
| 1"                 | 1.395   | 3.16 | 4.16 | 2.49 | 0.75 | 2.15 | 3.15 | 1.43 | 2.43 | ZC1PC1.0PVP304ZP                       | ZC2PC1.0PVP304ZP                       |
| 1 1/4"             | 1.740   | 3.65 | 4.65 | 2.99 | 0.88 | 2.39 | 3.39 | 1.53 | 2.53 | ZC1P1.25PVP304ZP                       | ZC2PC1.25PVP304ZP                      |
| 1 1/2"             | 1.980   | 3.65 | 4.65 | 2.99 | 0.88 | 2.39 | 3.39 | 1.40 | 2.40 | ZC1PC1.5PVP304ZP                       | ZC2PC1.5PVP304ZP                       |
| EMT Size           | Line OD | H    |      | L    | W    | CL   |      | WP   |      | 1" Spacer - Part Number<br>(tight fit) | 2" Spacer - Part Number<br>(tight fit) |
|                    |         | 1"   | 2"   |      |      | 1"   | 2"   | 1"   | 2"   |                                        |                                        |
| 1/2"               | 0.706   | 2.63 | 3.63 | 1.93 | 0.75 | 1.88 | 2.88 | 1.52 | 2.52 | ZC1PC0.50E304ZP                        | ZC2PC0.50E304ZP                        |
| 3/4"               | 0.824   | 2.63 | 3.63 | 1.93 | 0.75 | 1.88 | 2.88 | 1.43 | 2.43 | ZC1PC0.75E304ZP                        | ZC2PC0.75E304ZP                        |
| 1"                 | 1.163   | 3.07 | 4.07 | 2.49 | 0.75 | 2.15 | 3.15 | 1.55 | 2.55 | ZC1PC1.0E304ZP                         | ZC2PC1.0E304ZP                         |
| 1 1/4"             | 1.510   | 3.15 | 4.15 | 2.49 | 0.75 | 2.15 | 3.15 | 1.39 | 2.39 | ZC1PC1.25E304ZP                        | ZC2PC1.25E304ZP                        |
| 1 1/2"             | 1.740   | 3.63 | 4.63 | 2.99 | 0.88 | 2.38 | 3.38 | 1.52 | 2.52 | ZC1PC1.5E304ZP                         | ZC2PC1.5E304ZP                         |

\* On long vertical runs, a ZCUB should be considered for installation as an anchor



\*\* 1.0" is stock length  
other lengths are available



# ZERO CAULK™ - ZC SERIES - 1" and 2" PEDESTAL w/ PHH HANGERS

## Eliminates Caulk

### MOUNTING:

- Blindside Walls - Insulated Metal Panels IMP's, Square Tubes, Framing... use Jack Nut/rievet nut
- Openside Walls- Cleanroom Wall Panels, Gypsum Board, Beams, Plates, Cement... use backside backing plate with lock nuts

### APPLICATIONS:

- Cleanrooms and mechanical areas, including but not limited to the biotech, pharmaceutical, food processing, beverage, dairy, cosmetic, chemical, water treatment, and semiconductor industries.
- Low flow & low pressure systems with moderate vibration: WFI, SIP, CIP, process, utility & instrument lines, WFI, SIP, CIP, process, utilities & instrument lines
- The use of spacers enables access to all surfaces for cleaning, wiping, and inspection, as required under the 2011 Food Safety Modernization Act.

### LINE TYPES AND SUPPORT RANGE:

Offered with either CSDW or PHHW housings

- 1/2" - 1 1/2" Pipe
- 1/8" - 2" Tube

### MATERIALS:

- 304 and 316 stainless steels – for 316, replace 304 with 316 in the part number
- FDA grade Silicone Rubber Gaskets with Silver ion additive

### FEATURES:

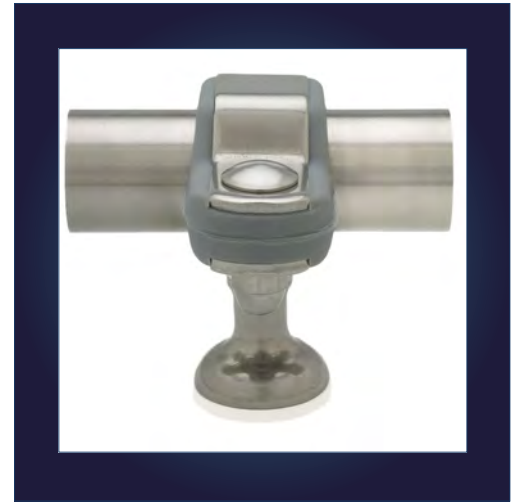
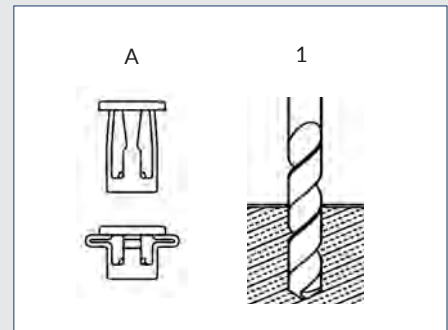
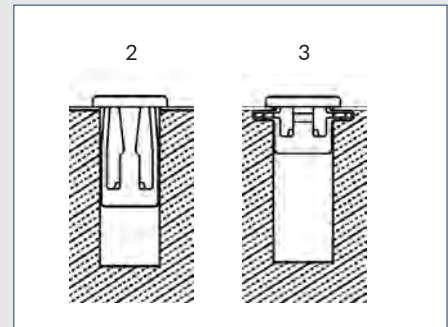
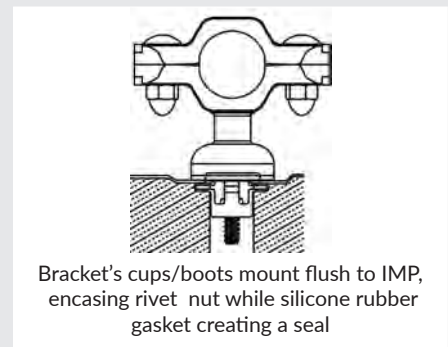
- Silicone Rubber Gasket eliminates the use of caulk - caulk will breakdown over time creating voids
- ZERO PUDDLE™ Silicone Rubber Gasket creates a drainable and cleanable seal to surface
- Silver ion additive is blended in the FDA grade Silicone Rubber Gaskets, effectively preventing the growth of bacteria, mold, and fungi
- Jack Nut's tensile strength is over 820 pounds
- ZERO PUDDLE™ Silicones inserts raised geometry facilitates drainage of liquids on vertical/riser lines, reducing maintenance downtime
- There are no exposed threads or openings

### GRAPHICS: A FEW MINUTE PROCES

#### A. Stock and actuated Rivet Nut

1. Drill 7/16" hole into IMP
2. Rivet nut placed in hole
3. Rivet nut actuated and secured to IMP via

Recommended jack nut installation tool: MARSON, M39043 MJN-2

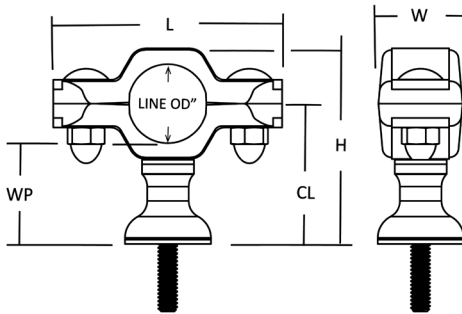


Bracket's cups/boots mount flush to IMP, encasing rivet nut while silicone rubber gasket creating a seal

Refer to [www.syntirocorp.com](http://www.syntirocorp.com) or call Syntiro for most up to date information

# ZERO CAULK™ - ZC SERIES - 1" and 2" PEDESTAL w/ PHH HANGERS

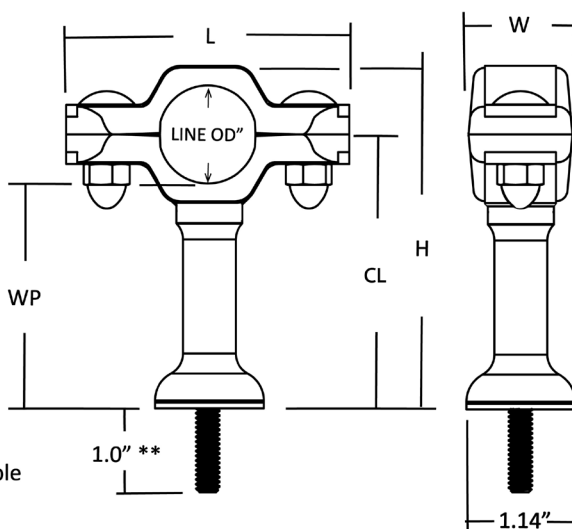
Silicone rubber gasket seals to surfaces, no gaps



\*\* 2" & 3" section of 1/4"-20 thread is standard, other lengths are available

| Tube Size | Line OD | H    |      | L    | W    | CL   |      | WP   |      | 1" Spacer - Part Number<br>(tight fit) | 2" Spacer - Part Number<br>(tight fit) |
|-----------|---------|------|------|------|------|------|------|------|------|----------------------------------------|----------------------------------------|
|           |         | 1"   | 2"   |      |      | 1"   | 2"   | 1"   | 2"   |                                        |                                        |
| 1/2"      | 0.50    | 2.28 | 3.28 | 3.00 | 1.10 | 1.65 | 2.65 | 1.41 | 2.41 | ZC1PP0.50T304ZP                        | ZC2PP0.50T304ZP                        |
| 3/4"      | 0.75    | 2.28 | 3.28 | 3.00 | 1.10 | 1.65 | 2.65 | 1.24 | 2.24 | ZC1PP0.75T304ZP                        | ZC2PP0.75T304ZP                        |
| 1"        | 1.00    | 3.67 | 3.67 | 4.00 | 1.42 | 1.82 | 2.82 | 1.39 | 2.39 | ZC1PP1.0T304ZP                         | ZC2PP1.0T304ZP                         |
| 1 1/2"    | 1.660   | 3.11 | 4.11 | 4.60 | 1.42 | 2.32 | 3.32 | 2.11 | 3.11 | ZC1PP1.50T304ZP *                      | ZC2PP1.50T304ZP *                      |
| 2"        | 1.900   | 3.71 | 4.71 | 4.60 | 1.42 | 2.32 | 3.32 | 1.34 | 2.34 | ZC1PP2.0T304ZP *                       | ZC2PP2.0T304ZP *                       |
| Pipe Size | Line OD | H    |      | L    | W    | CL   |      | WP   |      | 1" Spacer - Part Number<br>(tight fit) | 2" Spacer - Part Number<br>(tight fit) |
|           |         | 1"   | 2"   |      |      | 1"   | 2"   | 1"   | 2"   |                                        |                                        |
| 1/2"      | 0.840   | 2.60 | 3.60 | 3.00 | 1.10 | 1.82 | 2.82 | 1.40 | 2.40 | ZC1PP0.50P304ZP                        | ZC2PP0.50P304ZP                        |
| 3/4"      | 1.050   | 2.60 | 3.60 | 3.00 | 1.10 | 1.82 | 2.82 | 1.26 | 2.26 | ZC1PP0.75P304ZP                        | ZC2PP0.75P304ZP                        |
| 1"        | 1.315   | 3.17 | 4.17 | 4.00 | 1.42 | 2.08 | 3.08 | 1.46 | 2.46 | ZC1PP1.0P304ZP                         | ZC2PP1.0P304ZP                         |
| 1 1/4"    | 1.660   | 3.68 | 4.68 | 4.60 | 1.42 | 2.40 | 3.40 | 1.41 | 2.41 | ZC1PP1.25P304ZP *                      | ZC2PP1.25P304ZP *                      |
| 1 1/2"    | 1.900   | 3.68 | 4.68 | 4.60 | 1.42 | 2.40 | 3.40 | 1.57 | 2.57 | ZC1PP1.5P304ZP *                       | ZC2PP1.5P304ZP *                       |

\* On long vertical runs, a ZCUB should be considered for installation as an anchor



# ZERO CAULK™ - MULTI PIPE WALL MOUNTING BRACKET

Eliminates Caulking and Welds

## MOUNTING:

- Blindside - Insulated Metal Panels IMP's, Square Tubes, Framing... use Jack Nut/rievet nut
- Openside - Gypsum Board, Beams, Plates, Cement... use backside backing plate with lock nuts

## APPLICATIONS:

- Cleanrooms and mechanical areas, including but not limited to the biotech, pharmaceutical, food processing, beverage, dairy, cosmetic, chemical, water treatment, and semiconductor industries
- Low flow & low pressure systems with moderate vibration: WFI, SIP, CIP, process, utility & instrument lines

## SIZES:

- Support Range: 1/4" - 3" Tube and 1/2" - 2" Pipe for Copper and PVC Coated Pipe and EMT Conduit
- Tight fit Anchors and loose fit Guides are offered

## MATERIALS:

- 304 and 316 stainless steels – for 316, replace 304 with 316 in the part number
- FDA grade Silicone Rubber Gaskets with Silver Ion/Anti-Bacterial agent

## FEATURES:

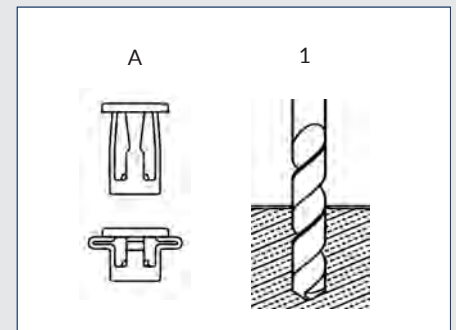
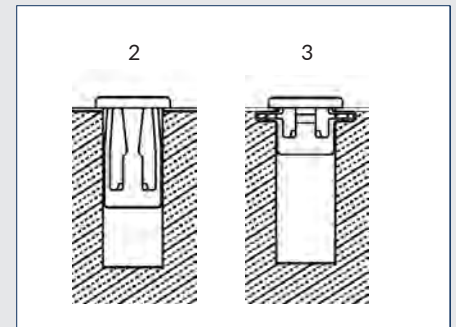
- Silicone Rubber Gasket eliminates the use of caulk - caulk will breakdown over time creating voids
- Silicone Rubber Plugs/Gasket creates a drainable and cleanable seal to surface
- Silver ion additive is blended in the FDA grade Silicone Rubber Gaskets, impeding bacterial, mold, and fungus from forming on the gasket
- IPX5 certification – ensuring the bracket can withstand water jets from any direction
- One-inch bracket height – enhances the efficiency and inspectability of the washing and wipe-down process
- Jack Nut's tensile strengths are over 820 pounds
- ZERO PUDDLE™ Silicone inserts' raised geometry facilitates drainage of liquids on vertical/riser lines, reducing maintenance downtime

## GRAPHICS: A FEW MINUTES PROCESS

- A. Stock and actuated Rivet Nut
1. Drill 7/16" hole into IMP
2. Rivet nut placed in hole
3. Rivet nut actuated and secured to IMP via

MARSON, M39043 MJN-2 JACK NUT INSERT TOOL

Refer to [www.syntirocorp.com](http://www.syntirocorp.com) or call Syntiro for most up to date information



# ZCMPB - ZERO CAULK™ - MULTI PIPE WALL MOUNTING BRACKET

Silicone rubber gasket seals to surfaces, no gaps



**ZC038M-038-304 (MINI)**

7/8" STAND OFF - BRACKET TO  
HANGER, UP TO 3/8" THREAD



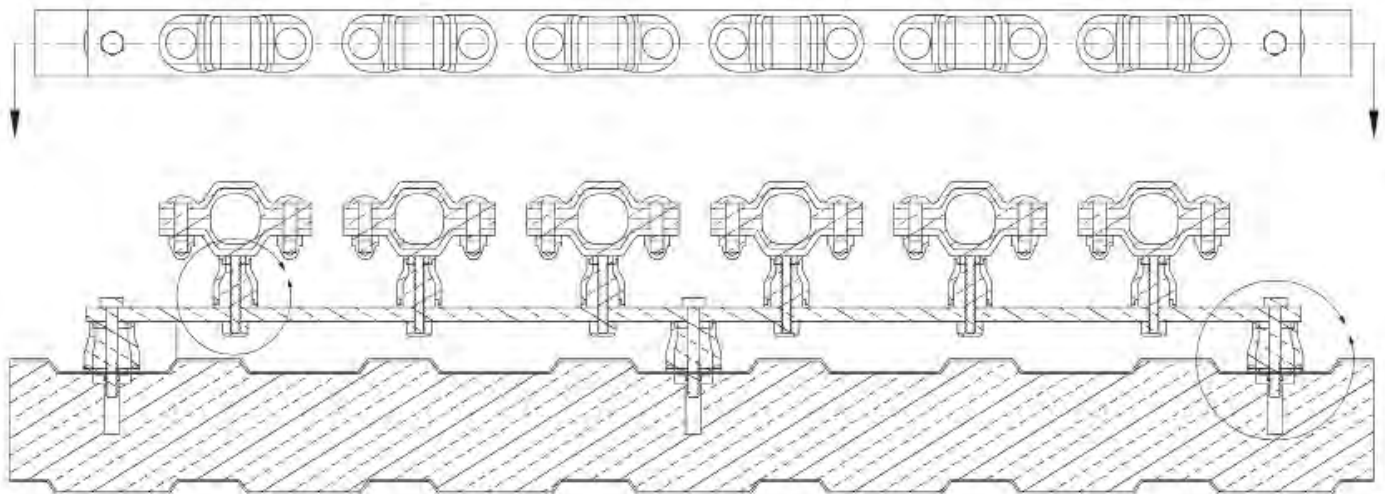
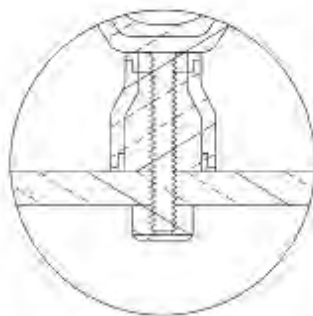
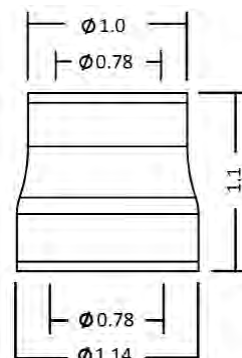
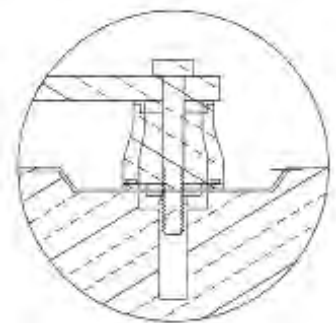
**ZC038MP0.75T304SAN**

ZERO CAULK - ZC SERIES - 1" PEDESTAL  
w/ PHH HANGERS



**ZC050-1SWC-304**

1" STAND OFF - WALL TO COMPONENT  
UP TO 1/2" THREAD



# ZERO CAULK™ UNIVERSAL CUP with 3/8"-16 THREADED CONNECTION ZCUPT-038-304

- Silicone rubber gasket seals to surface, no gaps
- Silicone rubber plug fills ZCUPs interior and seal to mounting surface
- Silicone rubber O-ring, under bolts head, seals bolt channel
- Ideal for mounting to Insulated Metal Panels, yet perfect for Clean Room Panels
- 304 and 316 stainless steels
- For 316, in part number, substitute 304 with 316



## PART NUMBER - ZCUPT-038-304

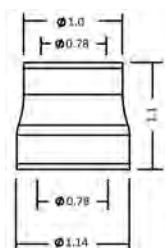
| Lenght | Height | Width | Threaded Connection | Connecting Bolts | Bolt Holes Center Line | Part Number   |
|--------|--------|-------|---------------------|------------------|------------------------|---------------|
| 4.41"  | 1.19"  | 1.48" | 3/8"-16             | 1/4"-20          | 3.25"                  | ZCUPT-038-304 |

## ZERO CAULK 1" WALL TO COMPONENT - ZCS SPACERS

Silicone rubber gasket seals to surfaces, no gaps



**ZC050-1SWC-304**  
1" STANDOFF - WALL TO COMPONENT  
UP TO 3/4" THREAD



**ZC025-1SWC-304**  
1" STANDOFF - WALL TO COMPONENT



## SHIELDED ALL THREAD RODS - SROD

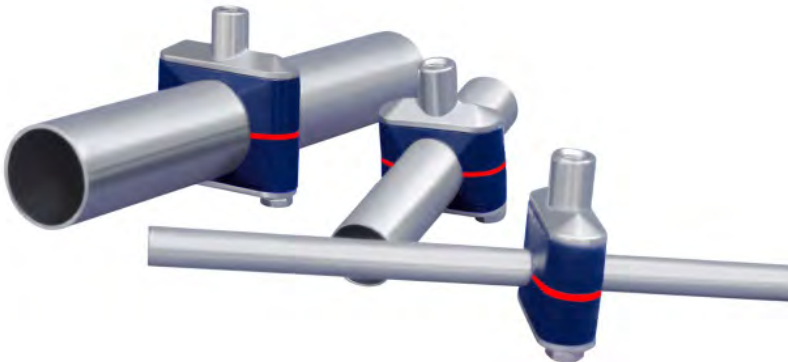
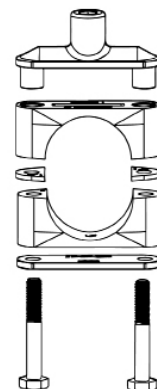
- Tight-fit, FDA approved, LDPE shield encases all thread rod
- LDPE sleeve can be cut to size with a utility knife
- Leave the LDPE sleeve a little long, as fasteners/ hangers are installed the LDPE compacts. Increasing the tight fit to the component
- Cost alternative to stainless tube sleeves. Eliminates the facing process of stainless tube's ends



| Threaded Rod | PART NUMBER             | DESCRIPTION                                                 |
|--------------|-------------------------|-------------------------------------------------------------|
| 3/8"-16      | SROD-038-304-LDPE-GRAY  | Shielded Rod, 3/8"-16, 6 Feet Long, 304, LDPE Sleeve, Gray  |
| 1/2"-13      | SROD-050-304-LDPE-GRAY  | Shielded Rod, 1/2"-13, 6 Feet Long, 304, LDPE Sleeve, Gray  |
| 5/8"-11      | SROD-063-304-LDPE-GRAY  | Shielded Rod, 5/8"-11, 6 Feet Long, 304, LDPE Sleeve, Gray  |
| 3/8"-16      | SROD-038-ZINC-LDPE-GRAY | Shielded Rod, 3/8"-16, 6 Feet Long, ZINC, LDPE Sleeve, Gray |
| 1/2"-13      | SROD-050-ZINC-LDPE-GRAY | Shielded Rod, 1/2"-13, 6 Feet Long, ZINC, LDPE Sleeve, Gray |
| 5/8"-11      | SROD-063-ZINC-LDPE-GRAY | Shielded Rod, 5/8"-11, 6 Feet Long, ZINC, LDPE Sleeve, Gray |

## CSD GUIDES

- Allows Tube and Pipe to freely expand and contract during thermal cycling





**WORLD LEADING HYGIENIC EQUIPMENT  
MANUFACTURERS “HANG WITH THE BEST”**

5033 Industrial Rd., Building 6, Wall Township NJ 07727-3946

T: 732-377-3307 | E: [sales@syntirocorp.com](mailto:sales@syntirocorp.com)

Website: [www.syntirocorp.com](http://www.syntirocorp.com)

U.S. Pat. No. US 8,596,589 B2 - US 9,033,289 B2 - US 9,038,968 B2 with other US Patents

Cat. GPEC1025