BEHRINGER®



Pipe Supports For Industrial Applications



Forward

Introduction

Thank you for choosing Behringer, the world's leading manufacturer of Pipe and Tube supports. Behringer has been manufacturing pipe clamps and support systems for over 40 years, and has developed a reputation in the industrial and sanitary markets that is second to none. We have made developments and product improvements over the years both strengthening and broadening our product offering. This is evident in the breadth of our line and ability to accommodate new applications and designs. You can count on Behringer for all of your clamping requirements.

Product

Behringer Industrial Pipe and Tube Supports have natural vibrationdampening characteristics. This is important in pressure piping in order to reduce vibration, noise, and shock. This will effectively protect the system and it's sensitive components from the damaging effects of these adverse system byproducts typically found in pressure piping systems.

Behringer offers several different series and within each series there are many different configurations available. We offer options for mounting such as welding, bolting, rail and strut mounting, double, and group mounting, etc. Behringer always welcomes a challenge, and would be happy to work with you to design a product that is custom-tailored to your application. This is where many of our developments are first generated, and helps to further progress the complexity of our product. Challenge us with your requirements.

Guarantee

Behringer Corporation, hereinafter called the "MANUFACTURER", guarantees that this product shall be free from defects in workmanship and materials. THIS GUARANTEE IS IN LIEU OF ALL OTHER GUARANTEES EITHER EXPRESSED OR IMPLIED, INCLUDING GUARANTEES FOR FITNESS FOR PURPOSE INTENDED. The MANUFACTURER'S liability is limited to the replacement of any materials which, after inspection by the MANUFACTURER at it's sole option, are found to be defective. The MANUFACTURER will honor only those claims that are presented to it within one hundred eighty (180) days of the delivery of the materials to the purchaser. The MANUFACTURER SPECIFICALLY DISCLAIMS ANY AND ALL LIABILITY FOR CONSEQUENTIAL DAMAGES. The MANUFACTURER shall not be liable for any damages which arise out of the misuse or abuse of the products.



Applications

Behringer clamps are used in many different types of applications ranging from low pressure lubrication and water systems to high pressure hydraulic and process systems. Anywhere that there are pipes, tubes, or hoses are viable applications for Behringer clamps. Behringer clamps are used in the following markets and applications most frequently.

Mobile Equipment
Mining Equipment
Offshore and Marine Applications
Shipbuilding
Instrumentation
Nuclear
General Construction
Electrical / Mechanical Contracting
Process Piping
Pharmaceutical / Biotechnology
Food and Dairy
Beverage

Power Generation Pulp and Paper Industrial Hydraulics Power Units Agricultural Equipment OEM Machinery

Assistance

Behringer Corporation has a competent and highly skilled staff of inside sales and customer service personnel available to assist you with any of your needs. Behringer can be reached in the following ways.

Post Mail: Behringer Corporation

17 Ridge Road

Branchville, NJ 07826

Telephone: +1 (973) 948-0226

Fax: +1 (973) 948-2562

Email: sales@behringersystems.com

Our regular business hours are Monday through Friday, 8AM - 5 PM Eastern Time. For after-hours service, please contact your regional sales manager.

Please Read

The information contained in this document is provided as an aid in properly selecting products and/or options. It is intended to be used by technically experienced users for general reference only. The supplier assumes no responsibility or liability for the accuracy or completeness of this document, as well as results obtained by the use of this information. Due to the variety of possible operating conditions, it is highly recommended that the user make their own tests to determine the safety and suitability of all products and combinations thereof. The user is solely responsible for final determination of such conditions.

Table of Contents











	rage
Pipe Clamp Selection	2-3
Pipe Clamp Series Specifications	4-5
Standard Series Pipe Clamps	
Clamp Pair Selection, Part Numbers, and Dimensions	6
Securing Plate Selection and Dimensions	7
Rail and Strut Mounting Options	8
Hardware Selection and Dimensions	9
Complete Assembly Ordering Code	10
Ordering Examples	11
Heavy Series Pipe Clamps	
Clamp Pair Selection, Part Numbers, and Dimensions	12
Securing Plate Selection and Dimensions	13
Hardware Selection and Dimensions	14
Rail and Strut Mounting Options	15
Complete Assembly Ordering Code	16
Ordering Examples	17
Twin Series Pipe Clamps	
Clamp Pair Selection, Part Numbers and Dimensions	18
Hardware Selection and Dimensions	19
Rail and Strut Mounting Options	20
Complete Assembly Ordering Code	21
Ordering Examples	22
Heavy-4 Series Pipe Clamps	
Clamp Pair Selection, Part Numbers and Dimensions	23
Hardware Selection and Dimensions	24
Complete Assembly Ordering Code & Ordering Examples	25
Saddle Series Pipe Clamps	
Long Saddle U-Bolt Clamp	26
Short Saddle U-Bolt Clamp	27
Cushioned Clamping System	
Cushioned Clamping System	28
Technical Appendix	
Material Properties Technical Data	29
Complete Clamp Dimensional Drawings	30-31
Tightening Torques and Maximum Loads	32
Recommended Spacing	33

Pipe Clamp Selection

Behringer's pipe clamps are available with many different mounting configurations and arrangements. In choosing a pipe clamp, there are five main required pieces of information; series, size, clamp pair material, hardware material, and mounting/hardware configuration.

Series Selection

In order to select the proper clamp, the first thing that must be determined is the series of clamp to be used. Refer to the series specification on pages 4-5 to see what clamp series are available, as well as the technical characteristics of those series. The most important factors to be considered are the operating pressure of the line to be secured, the weight being supported, and the dynamic load. Other considerations include size, environment, and application. For example, a 1" pipe for a hydraulic system operating at 2,000 psi would typically require the use of the standard series, but the heavy series may be selected if it will be required to support the weight of a large filter or other system component. Maximum weight loads and shearing forces can be found in the technical appendix. Also, the heavy series might be selected rather than the standard series if the line is on a piece of mining or mobile equipment that may see a very high amount of impact with other equipment or materials such as stones and metals. In Fig.1 below you can see the suggested operating pressures by series. These suggested values take into consideration the shock and vibration that a typical hydraulic system operating at these pressures can deliver.

Fig. 1: General Pressure Guidelines by Series

Clamp Series	Suggested Operating Pressure
Standard	up to 2000 psi
Heavy	5000 psi for Single Heavy/10,000 psi for Double
Twin	up to 1500 psi
Heavy-4	5000 psi for Single Heavy/10,000 psi for Double

Size

The next important factor in the selection of the pipe clamp is the size of the line to be secured. Behringer clamps use a modular group size that consists of multiple OD sizes being available within the same group. Clamps are listed as pipe or tube sizes. The difference is in the standard measurements used to rate pipe and tube sizes. Pipe is rated by the inside diameter, and will have a larger outside diameter because of the wall thickness. For example, a 1 inch pipe has an OD of 1.315. This is a standard pipe OD size and is consistent of all hydraulic pipe, regardless of schedule. Tubing, on the other hand, is rated by the outside diameter. Therefore, a 1 inch tube will have an OD of 1.00 in. This is important in determining the size of the pipe clamp that will be selected. Also, the size may determine the series of clamp selected. For example, a low pressure line operating at 1,500 psi that is 6 inch pipe size is not available in the Standard Series, therefor the Heavy Series must be used.

Clamp Pair Material

The clamp pair material is the next thing that should be selected. Behringer's clamp pairs are offered in different materials; Polypropylene (PP), Santoprene (SP), Aluminum (AL), HDPE (NN), and High Temperature Cast Nylon (HT). The single most important determining factor of clamp pair material is operating temperature. The temperature ratings and other important specifications can be found in the technical appendix. Some materials are not available in all sizes or all series. Refer to the specific clamp pair selection charts from each series to see what is available in the required size. Other considerations for materials are compatibility with the environment and for aesthetic reasons, color.

Hardware Material

Once you have determined the series of pipe clamp and the size that is required, the next step is to determine the hardware materials that you will require. In the series selection pages, you will see that each series has a standard hardware material type. See Fig. 2 for standard hardware choices. The standard hardware is either plain carbon steel or zincplated steel. All Behringer clamps that are zinc-plated use a trivalent blue zinc plating, which is more environmentally friendly than typical hexavalent zinc plating, and is RoHS compliant. In addition to the standard hardware choices, Behringer offers stainless steel in 2 grades from stock. AISI 304 Stainless Steel (A2 - 1.4301/1.4305) is used in applications where stainless steel is required. This may be in an outside environment, because of chemical compatibility reasons, or because of requirements from the FDA or other regulatory committee. AISI 316 Ti Stainless Steel (A4 - 1.4401/1.4571) is a high grade stainless steel. The 316 Stainless is used in applications where it will come in contact with salt water or air with a high salt concentration such as offshore or marine applications.

Clamp Series	O- d-		
Fig. 2: S	tandard	Hardware	Material by Series

Clamp Series	Code	Material
Standard	Z	Clear Zinc-Plated Steel
Heavy	С	Plain Carbon Steel
Twin	Z	Clear Zinc-Plated Steel
Heavy-4	С	Plain Carbon Steel

Pipe Clamp Selection

Mounting / Hardware Configuration

Behringer offers a multitude of mounting configurations and arrangement styles. Clamps can be mounted to support structure by either welding, bolting, rail-mounting, unistrut mounting, or stanchion and special securing plates. In addition, clamps can be stacked on top of each other, suspended from threaded rods, or any number of double and group positions can be made on multiple clamp weld plates, called Group Weld Plates (GRW). These options are not available for every series. Please check the ordering code for available mounting and hardware configurations. See below for examples of these mounting types.



Weld Mounting [STW, SWP, TWP]

Clamps are supplied with a weld plate for welding directly to the support structure. This is the most common form of clamp mounting, and is available in all series of pipe clamps. It is typically used with a cover plate and bolts, and is a commonly stocked item.

Standard Series: STW

Heavy Series: SWP/DWP

Twin Series: TWP

Heavy 4 Series: SWP / DWP



Rail Mounting [RAL/RCN]

Rail mounting makes installation of multiple lines of different group sizes an easy task. All clamps within one series can be mounted directly to a single channel using rail nuts that are designed for that rail. Behringer also makes proprietary rails that can accept the weld plates rather than the rail nuts. The rail uses are as follows.

RAL-0 Standard and Twin Series Clamps with

RCN-0 (standard) / RCN-T0 (twin)

RAL-1 Standard and Twin Series with STW RCN-1 (standard) / RCN-4 (twin)

RAL-2 Heavy Series Clamps with SWP (H3-H5)

RAL-3 Heavy Series Clamps with SWP (H6)

RAL-4 Heavy Series Clamps with RCN



Bolt Mounting with Base Plates [BAP]

Clamps are supplied with a base plate for applications where the clamp cannot be welded into position. This is commonly used to mount the clamps to non-metallic surfaces such as wood or drywall. However, base plates can be welded into position if required. Base plates are available in the standard series and heavy series.



Strut Mounting (UCN)

Behringer clamps can also be supplied with strut nuts (UCN) for mounting to standard strut channel. The new spring-loaded nuts are adaptable to any strut channel that is 1-5/8" wide. The depth of the channel is not important, as the UCN clips attach with a spring loaded tension on the top of the channel. Unistrut adaptation is available for all series of pipe clamps.



Multiple Clamp Weld Plates [DOW, GRW]

For multiple lines, Behringer offers double weld plates or group weld plates. The double weld plates create a double clamp that allows for the convenience of welding only one plate, but the strength and durability of using standard series hardware with individual clamp halves and 4 hex bolts. Group weld plates can accommodate between 3-10 positions, depending on the application. This is beneficial for keeping a tightly regimented center distance on the piping or tubing where multiple lines are run along the same plane. For both the double and group weld plates, all clamps to be fitted to the same plate must be within the same hardware group size.



Stacking Kits

Stacking kits consist of a set of clamp halves, stacking bolts, and a safety plate. A stacking kit is everything that is needed to take an existing clamp and make it one level taller. You use the hardware from the existing clamp; remove the cover plate, clamp halves, and hex bolts from the existing clamp, insert the stacking kit onto the bottom fixture (weld plate, rail nuts, etc...), and then replace the existing clamp hardware on top. Multiple stacking kits can be added to increase the number of clamps stacked on top of each other. Stacking kits are available in all series.

Pipe Clamp Series Specifications

Vibration-Dampening Pipe Clamps

Behringer's vibration-dampening pipe clamps are manufactured in different series for use in many different applications. The core range of pipe clamps encompasses Standard Series, Heavy Series, Heavy-4 Series, and Twin Series. They meet ASTM, Shipbuilding, Nuclear, Coast Guard, and other specifications.



Standard Series Pipe Clamps

Range: 0.25 in. (6.2 mm) through 4 in. (102 mm) OD

Pressure: 2,000 psi

Material: Zinc-plated, 304SS,

316SS, Carbon Steel

Clamp Halves: Polypropylene,

Santoprene, Aluminum

Standard series pipe clamps can withstand the shock and vibration that a hydraulic system operating at up to 2,000 psi can deliver. Standard hardware is zinc-plated steel, unless otherwise noted. Also available from stock are 304 SS and 316 SS hardware. The standard series is offered in a multitude of configurations, such as weld-mounting, bolt-mounting, rail-mounting, stacking, double weld-mounting, and group weld-mounting. Many other options are possible with existing

hardware, and custom arrangements are always a welcomed challenge.



Heavy Series Pipe Clamps

Range: 0.25 in. (6.3 mm) through

8.625 in. (219 mm)

Pressure: 5,000 to 10,000 psi Material: Plain Carbon Steel, 304SS, 316SS, Zinc Plated Clamp Halves: Polypropylene,

Santoprene, Aluminum

Heavy series pipe clamps can withstand the shock and vibration that a hydraulic system operating at up to 5,000 psi can deliver. With the use of the Double Heavy design, lines with operating pressure of up to 10,000 psi can be accommodated. Standard hardware material is un-plated carbon steel. Also available are 304 SS and 316 SS, as well as zine-plated hardware. The heavy series can be mounted using a weld plate, base plate, rails, and stacking kits. Many other options are possible with existing hardware, and custom arrangements are always a possibility.



Twin Series Pipe Clamps

Range: 0.25 in. (6.3 mm) through

1.66 in. (42 mm) Pressure: 1,500 psi

Material: Zinc Plated, 304SS,

316SS, Plain Carbon Steel

Clamp Halves: Polypropylene,

Santoprene

The Twin Series is an excellent choice where multiple lines are required, while keeping a close center distance between the lines. Twin series pipe clamps can withstand the shock and vibration that a hydraulic system operating at up to 1,500 psi can deliver. Twin Series hardware material is zinc-plated steel. Also available from stock are 304 SS and 316 SS hardware. The twin series can be mounted using a weld plate, rails, and stacking kits. Many other options are possible with existing hardware, and custom arrangements are always an option.



Heavy-4 Series Pipe Clamps

Range: 8.625 in. (219 mm) through 30 in.

(762 mm) OD

Pressure: 5,000 psi to 10,000 psi

Material: Un-plated Carbon Steel, 304SS,

316SS, Zinc-Plated

Clamp Halves: Polypropylene

Others on request

Behringer's patented Heavy-4 Series pipe clamps are unrivaled in design and performance. Our clamps feature a unique 4-segmented plastic design which retains dimensional accuracy, resists stress and impact, absorbs vibration, and accomplishes a strong plastic-to-metal contact interface. This segmented plastic design is complemented by substantial steel support hardware.

Heavy-4 Series pipe clamps can withstand the shock and vibration that a hydraulic system operating at up to 5,000 psi can deliver, and with the use of the double he vy design they can accommodate lines with pressures up to 10,000 psi. Standard hardware is a low carbon steel. Also available are 304 SS and 316 SS as well as zinc-plated hardware. The Heavy-4 Series is only offered as a weld-mounted clamp.

Pipe Clamp Series Specifications

Other Pipe Clamps

Behringer also manufactures other clamping components and hardware. The Cushion Clamps mount low pressure lines to commonly found strut channel. Plastic saddle clamps and U-bolts are commonly used on large diameter low pressure piping. Behringer has roots in the metal fabrication industry, and we can easily manufacture customer-specific fabricated metal or injection molded products. We currently manufacture many other items for OEMs that are specially designed for that specific customer. We work closely with key personnel in the research and design stages, and can make prototypes in a very short time. Let us know what we can do for you.



Cushioned Pipe Clamps

Range: 0.25 in. (6.2 mm) through

6.625 in. (168 mm) OD Pressure: Low pressure

Material: Zinc-Plated, 304SS, 316SS Clamp Insert: Thermoplastic

Elastomer



Saddle Series Pipe Clamps

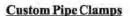
Range: 0.84 in. (21 mm) through 30 in. (762

U-Bolt Material: Zinc Plated, 304SS, 316SS,

Saddle Material: Polypropylene, UHMW

Behringer's cushioned clamps are designed for low pressure applications such as conduit, water, waste, and other non or low pressure lines. They easily mount to standard strut channels that are available in almost every industrial and many mobile applications. The standard hardware material is zinc-plated steel. Also available are 304 SS and 316 SS hardware. The cushion is manufactured from a thermoplastic elastomer material that is designed to reduce vibration and noise, while providing constant reliability in operating temperatures to 275 degrees F.

The Saddle Series pipe clamps consist of a heavy duty plastic saddle and a U-bolt with 4 hex nuts. The saddle series allows for movement due to vibrations and thermal expansion and contraction. The plastic saddle eliminates the metal-to-metal contact of the piping on the support structure, preventing costly damage to pipe installations. Behringer's Saddle Series clamps are typically used in shipbuilding, offshore and marine vessels, chemical plants, or wherever large diameter low pressure piping is installed. Behringer's saddle clamps are available in 2 different designs; Long Saddle and Short Saddle. The Long Saddle (shown above) extends past the u-bolt legs, and has holes for the legs to be inserted into. The Short Saddle does not extend to the u-bolts, and sits on the support structure or is held in place with location pins.





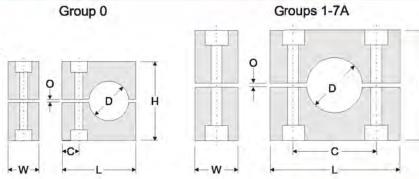
Range: Any Pressure: Any Material: Any Clamp Insert: Any

Customization is an easy task for Behringer's vast experience in custom metal fabrication and injection molding. If you have ideas about a custom-made product, we can easily and quickly take concepts and turn them into prototypes and ultimately production items. Behringer currently manufactures custom products for major OEM manufacturers in the mobile, offshore, industrial, and construction markets. Some custom items are a variation of a standard item, and others are completely different from our cataloged items. Let Behringer work for you to help resolve any of your fastening or clamping requirements.

Behringer's clamp pairs are available in different materials and incorporate a modular insert by group size. Standard Series pipe clamps are available in sizes from ¼ in. (6.35mm) through 4.5 in. (114mm) outside diameter sizes, and various materials such as polypropylene, Santoprene, and aluminum.







	CI	amp P	air Material Codes (*)	
P	[PP] Polypropylene Black Color	S	[SP] Santoprene Beige Color	A	[AL] Aluminum Aluminum Color

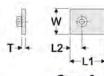
		Cla	amp Pai	r Select	tion an	d Part	Numb	ers			
Behringer Group	Size	Metric OD (mm)	Imperial OD (Inch)	L.	С	н	0	W	Weight Ea.	Ribbed Inside Clamp Pair (See material for *)	
	1/4 OD Tube	6.4	0.250							ST-CLH-00-*-025	
	3/8 OD Tube	9.5	0.375	1.125 in.	0.375 in.	1.110 in.	0.031 in.	1.219 in.		ST-CLH-00-*-038	
0	1/8 OD Tube	10.0	0.405	(28.6 mm)	(9.5 mm)	(28.2 mm)	100	(31 mm)	0.02 lbs	ST-CLH-00-*-041	
	1/2 OD Tube	12.7	0.500	(20.0 11111)	(3.5 11111)	(20.2 11111)	(0.0 11111)	(51 11111)		ST-CLH-00-*-050	
	5/8 OD Tube	16.0	0.625							ST-CLH-00-*-062	
	1/4 OD Tube	6.4	0.250							ST-CLH-01-*-025	
	8 mm OD	8.0	0.315	1.375 in.	0.790 in.	1.080 in.	0.031 in.	1.219 in.		ST-CLH-01-*-032	
1	3/8 OD Tube	9.5	0.375	(35 mm)	(20 mm)	(27.4 mm)	Control of the Contro	(31 mm)	0.03 lbs	ST-CLH-01-*-038	
	1/8 Pipe	10.0	0.405	(33 (1111)	(20 11111)	(27.4 mm)	(U.O HIIII)	(21 11111)		ST-CLH-01-*-041	
	12 mm	12.0	0.472							ST-CLH-01-*-047	
	3/8 OD Tube	9.5	0.375		1					ST-CLH-02-*-038	
	1/2 OD Tube	12.7	0.500	100	4 - 7 - 7	200	1.0	F 47.		ST-CLH-02-*-050	
	1/4 Pipe	13.7	0.540	1.625 in.	1.020 in.	1.280 in.	0.031 in.	1.219 in.	0.04 lbs	ST-CLH-02-*-054	
2	15 mm	15.0	0.591	(42 mm)	(26 mm)	(32.5 mm)	(0.8 mm)	(31 mm)	0.04 lbs	ST-CLH-02-*-059	
	5/8 OD Tube	16.0	0.625	10000000	4.4.4.4.4					ST-CLH-02-*-062	
	3/8 Pipe	17.1	0.675							ST-CLH-02-*-068	
	3/8 OD Tube	9.5	0.375				1			ST-CLH-03-*-038	
	18 mm	18.0	0.709							ST-CLH-03-*-070	
	3/4 OD Tube	19.0	0.750	4 675	4 000 1	4 000 °	0.004			ST-CLH-03-*-075	
3	20 mm	20.0	0.790	1.875 in.	1.300 in.	1.380 in.	0.031 in.	1.219 in.	0.05 lbs	ST-CLH-03-*-079	
	1/2 Pipe	21.3	0.840	(48 mm)	(33 mm)	(35.1 mm)	(0.8 mm)	(31 mm)		ST-CLH-03-*-084	
	7/8 OD Tube	22.2	0.875							ST-CLH-03-*-087	
	1 OD Tube	25.4	1.000							ST-CLH-03-*-100	
	3/4 Pipe	26.7	1.050	2.250 in. (57 mm)	2.250	V makes					ST-CLH-04-*-105
4	1 1/8 OD Tube	28.6	1.125		1.580 in.	1.625 in.	0.031 in.	1.219 in.	0.06 lbs	ST-CLH-04-*-112	
	30 mm	30.0	1.181		(57 mm)	(40 mm)	(42 mm)	(0.8 mm)	(31 mm)		ST-CLH-04-*-118
	1 1/8 OD Tube	28.6	1.125		1					ST-CLH-05-*-113	
	1 1/4 OD Tube	32.0	1.250							ST-CLH-05-*-125	
	1 Pipe	33.4	1.315							ST-CLH-05-*-132	
-2-	35 mm	35.0	1.378	2.750 in.	2.050 in.	2.375 in.	0.031 in.	1.219 in.		ST-CLH-05-*-138	
5	1 1/2 OD Tube	38.1	1,500	(70 mm)	(52 mm)	(60 mm)	(0.8 mm)	(31 mm)	0.11 lbs	ST-CLH-05-*-150	
	40 mm	40.0	1.575	4.55.2007	10 = 3300 N	402 30004	Assessed to	1		ST-CLH-05-*-157	
	1 5/8 OD Tube	41.3	1.625							ST-CLH-05-*-163	
	1 1/4	42.2	1.660							ST-CLH-05-*-166	
	1 3/4 OD Tube	44.5	1.750		2002	B 447				ST-CLH-06-*-175	
6	1 1/2 Pipe	48.3	1.900	3.375 in.	2.600 in.	2.625 in.	0.031 in.	1.219 in.	0.12 lbs	ST-CLH-06-*-190	
.0.	2 OD Tube	50.8	2.000	(86 mm)	66 mm)	(67 mm)	(0.8 mm)	(31 mm)		ST-CLH-06-*-200	
	2 1/4 OD Tube	57.2	2.250							ST-CLH-07-*-225	
	2 Pipe	60.3	2.375							ST-CLH-07-*-238	
2	2 1/2 OD Tube	63.5	2.500	5.000 in.	4.250 in.	4.375 in.	0.031 in.	1.219 in.	2-00 1	ST-CLH-07-*-250	
7	2 1/2 Pipe	73.0	2.875	(127 mm)	(108 mm)	(111 mm)	(0.8 mm)	(31 mm)	0.41 lbs	ST-CLH-07-*-288	
	3 OD Tube	76.2	3.000		(125,1000)	(1.1.1.1111)	V=13 11111/	A. C. (1010)		ST-CLH-07-*-300	
	3 Pipe	88.9	3.500							ST-CLH-07-*-350	
- 21	4 OD Tube	102.0	4.000	5.750 in.	4.948 in.	4.828 in.	0.031 in.	1.219 in.	neri dan A	ST-CLH-7A-*-400	
7A	4 Pipe	114.0	4.500	(146 mm)	(126 mm)		THE PROPERTY OF STREET	(31 mm)	0.39 lbs	ST-CLH-7A-*-450	

Securing Plate Selection and Dimensions



Threads:

Omit

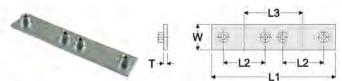




Group 0

Group 1-7A

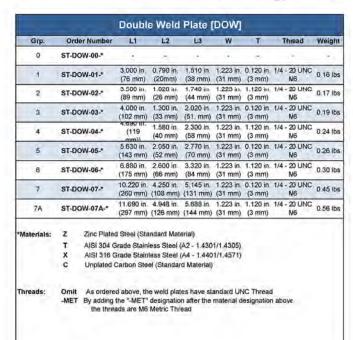
Grp.	Or	der Number	L1	L2	W	т	Thread	Weight
0		TW-00-*	1.188 in. (30 mm)	0.370 in. (9 mm)	1.223 in. (31 mm)	0.120 in. (3 mm)	1/4 - 20 UNC M6	0.06 lbs
11	1 ST-STW-01-*		1.510 in. (38 mm)	0.790 in. (20 mm)	1.223 in. (31 mm)	0.120 in. (3 mm)	1/4 - 20 UNC M€	0.07 lbs
2	ST-S	TW-02-*	1.740 in. (44 mm)	1.020 in. (26 mm)	1.223 in. (31 mm)	0.120 in. (3 mm)	1/4 - 20 UNC M€	0.08 lbs
3	ST-S	TW-03-*	2.020 in. (51 mm)	1.300 in. (33 mm)	1,223 in. (31 mm)	0.120 in. (3 mm)	1/4 - 20 UNC M€	0.10 lbs
4	ST-S	TW-04-*	2.300 in. (58 mm)	1.580 in. (40 mm)	1.223 in. (31 mm)	0.120 in (3 mm)	1/4 - 20 UNC M€	0.11 lbs
5	ST-S	TW-05-*	2.770 in. (70 mm)	2.050 in. (52 mm)	1.223 in. (31 mm)	0.120 in. (3 mm)	1/4 - 20 UNC M€	0.13 lbs
6	ST-S	TW-06-*	3.320 in. (84 mm)	2.600 in. (66 mm)	1.223 in. (31 mm)	0.120 in. (3 mm)	1/4 - 20 UNC M6	0.15 lbs
7	ST-S	TW-07-*	5.02 in. (128 mm)	4.250 in. (108 mm)	1.223 in. (31 mm)	0.120 in. (3 mm)	1/4 - 20 UNC M€	0.21 lbs
7A	ST-S	TW-7A-*	5.776 in. (147 mm)	4.948 in. (126 mm)	1.223 in. (31 mm)	0.120 in. (3 mm)	1/4 - 20 UNC M6	0.27 lbs
*Materials:	z	Zinc Plated	Steel (Stan	dard Mater	ial)			
	T	AISI 304 Gr	ade Stainle	ss Steel (A	2 - 1.4301/	1.4305)		
	X	AISI 316 G	ade Stainle	ss Steel (A	4 - 1.4401/	1.4571)		
	C	Unplated C	arbon Steel	(Standard	Material)			



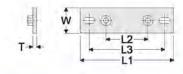
As ordered above, the weld plates have standard UNC Thread

-MET By adding the "-MET" designation after the material designation above,

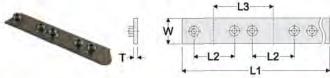
the threads are M6 Metric Thread







Grp.	Order Number	- 11	L2	L3	W	T	Thread	Weight
	1 1 V - 1 1 1			LU	-0	-	Mineau	Treigh
0	ST-BAP-00-	-	1+1				-	-
1	ST-BAP-01-*	3,000 in. (76 mm)	0,790 in. (20mm)	2.295 in. (58 mm)	1.223 in. 31 mm)	0.120 in. (3 mm)	1/4 - 20 UNC M6	0.13 lb
2	ST-BAP-02-*	3.302 in. (84 mm)	1.020 in. (26 mm)	2,550 in. (65 mm)	1.223 in. 31 mm)		1/4 - 20 UNC M6	0.14 lb
3	ST-BAP-03-*	3.500 in. (89 mm)	1.300 in. (33 mm)	2.825 in. (72 mm)	1.223 in. 31 mm)	0.120 in. (3 mm)	1/4 - 20 UNC M6	0.16 lb
4	ST-BAP-04-*	3.813 in. (97 mm)	1.580 in. (40 mm)	3,085 in. (78 mm)	1.223 in. 31 mm)	1.120 in. (3 mm)	1/4 - 20 UNC M6	0.16 lb
5	ST-BAP-05-*	4.250 in. (108 mm)	2.050 in. (52 mm)	3.500 in. (89 mm)	1.223 in. 31 mm)	0.120 in. (3 mm)	1/4 - 20 UNC M6	0.19 lb
6	ST-BAP-06-*	4.875 in. (124 mm)	2,600 in. (66 mm)	4.125 in. (105 mm)	1.223 in. (31 mm)	1.120 in. (3 mm)	1/4 - 20 UNC M6	0.20 lb
7	ST-BAP-07-*	6,500 in. (165 mm)	4.250 in. (108 mm)	5.750 in. (146 mm)	1.223 in. 31 mm)	0.120 in. (3 mm)	1/4 - 20 UNC M6	0.27 lb
7A.	ST-BAP-07A-*	7.240 in. (184 mm)	4.948 in (126 mm)	6.450 in. (164 mm)	1.223 in. (31 mm)	1.120 in. (3 mm)	1/4 - 20 UNC M6	0.35 lb
*Materials:	T AISI 304 C X AISI 316 C	d Steel (Sta Grade Stain Grade Stain Carbon Ste	less Steel less Steel	A2 - 1.430 (A4 - 1.440	1/1.4571)			
Threads:	-MET By adding	ed above, the the "-MET" ads are M6	designatio	n after the				



Grp.	Order Number	L1	/eld Plat	L3	W	T	Thread
0	N/A	-			-		Tilledo
	ST-GRW-01-*-XXX	C/F	0.790 in. (20 mm)	1.51) in. (38 nm)	1.223 in. (31 mm)	0.120 in. (3 mm)	1/4 - 20 UNO M6
2	ST-GRW-02-*-XXX	C/F	1.02 in. (26 mm)	1.74) in. (44 nm)	1.223 in. (31 mm)	1.120 in. (3 mm)	1/4 - 20 UNO M6
3	ST-GRW-03-*-XXX	C/F	1.300 in. (33 mm)	2.020 in. (51 nm)	1.223 in. (31 mm)	0.120 in. (3 mm)	1/4 - 20 UNG M6
4	ST-GRW-04-*-XXX	C/F	1.580 in. (40 mm)	2.300 in. (58 nm)	1.223 in. (31 mm)	1.120 in. (3 mm)	1/4 - 20 UN
5	ST-GRW-05-*-XXX	C/F	2.050 in. (52 mm)	2.770 in. (70 nm)	1.223 in. (31 mm)	0.120 in. (3 mm)	1/4 - 20 UN
6	ST-GRW-06-*-XXX	C/F	2.600 in. (86 mm)	3.320 in. (84 nm)	1.223 in. (31 mm)	1.120 in. (3 mm)	1/4 - 20 UN M6
7	ST-GRW-07-*-XXX	C/F	4.250 in: (108 mm)	5.145 in. (131 mm)	1.223 in. (31 mm)	0.120 in. (3 mm)	1/4 - 20 UN M6
7A	ST-GRW-7A-*-XXX	C/F	4.948 in (126 mm)	(144 (100)	1.223 in. (31 mm)	1.120 in. (3 mm)	1/4 - 20 UN M6
'Materials:	C Unplated Carbon	Steel (St	andard Mate	rial)			
	T AISI 304 Grade 3 X AISI 316 Grade 3 Z Zinc Plated Stee	Stainless S Stainless S	Steel (A2 - 1)	4301/1.430			

As ordered above, the weld plates have standard UNC Thread By adding the "-MET" designation after the material designation above, the threads are M6 Metric Thread

Rail Mounting Selection and Dimensions







Grp. Orde	r Number	Ļ	W	T	н	Thread	Weight Ea
0-7A ST-R	CN-99-*-RN0	0.950 in. (24 mm)	0.405 in (10.4 mm)	0.190 in. (5 mm)	0.570 in. (14.5 mm)	1/4-20 UNC	0.02 lbs
0-7A ST-N	IRN-99-*-RN0	0.950 in. (24 mm)		0.190 in. (5 mm)	0.570 in. (14.5 mm)	M6	0.02 lbs
*Materials	. z	Zinc Plate	d Steel (Sta	andard Mal	lerial)		
	τ	AISI 304 0	Grade Stainl	ess Steel	(A2 - 1.430)	1/1.4305)	
	X	AISI 316 C	Grade Stainl	ess Steel	(A4 - 1.440)	1/1.4571)	
	C	Unplated (Carbon Stee	d (Special	Material)		







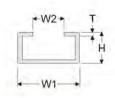
Grp. Order N	lumber	L	W	T	H	Thread	Weight Ea
0-7A ST-RCM	-99-*-RN1	1.075 in. (27 mm)	0.783 in (20 mm)	0.175 in. (4 mm)	0.405 in, (10 mm)	1/4-20 UNC	0.04 lbs
0-7A ST-MRN	I-99-*-RN1	1.075 in. (27 mm)	0.783 in (20 mm)	0.175 in. (4 mm)	0.405 in. (10 mm)	M6	0.04 lbs
"Materials:	z		d Steel (Sta				
	T				(A2 - 1.430		
	X				(A4 - 1.440	1/1.4571)	
	С	Unplated C	Carbon Ster	el (Special	Material)		





Grp.	0	rder Number	W1	W2	T	н	Length	Weight
0-7A	ST-RA0-99-*-XXX 1.125 in. 0.438 in.							
*Materials:	C	Unplated Car					SA.	
	Т	AISI 304 Gra						
	X	AISI 316 Gra	de Stainle	ess Steel	(A4 - 1.4)	401/1.45	71)	
	Z	Zinc Plated	Steel					
XXX Length:	6FT	72 in. (1829 n	nm) lengti	n (Standa	ard Lengti	h)		





Mounting Rail [RAL-1]								
Grp.	Orc	ler Number	W1	W2	T	Ĥ	Length	Weigh
0-7A	ST-R	A1-99-*-XXX	1.438 in. (36.5 mm)	0.625 in. (16 mm)	14 gauge	0.438 in. (11 mm)	6FT 3FT	4.65 lbs 2.33 lbs
*Materials:	Z T X C	Zinc Plated Steel(Standard Material) AISI 304 Grade Stainless Steel (A2 - 1.4301/1.4305) AISI 316 Grade Stainless Steel (A4 - 1.4401/1.4571) Unplated Carbon Steel						
XXX Length:	6FT 3FT	72 in. (1829 36 in. (914 m				th)		







Grp. Order N	lumber	L	W	H1	H2	Thread	Weight Ea
0-7A ST-UCN	I-99-"N	1.600 in. (41 mm)		0.525 in. (13 mm)	0.813 in. (21 mm)	1/4-20 UNC	0.10 lbs
*Materials:	Z			andard Mat		M	
	T			less Steel			
	X			less Steel		1/1.45/1)	
	С	Unplated C	arbon Ste	el (Special	Material)		

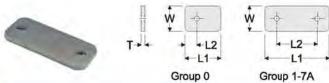




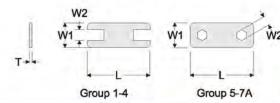


Grp. Order N	umber	ØD1	ØD2	T	Weight Ea
0-7A ST-COM	/-99-*	0.630 in. (16mm)	0.265 in. (7mm)	0.117 in. (3 mm)	0.01 lbs
*Materials:	Z T X C	Zinc Plated Steel (Sta AISI 304 Grade Stain) AISI 316 Grade Stain Unplated Carbon Stee			

Fastening Hardware Selection and Dimensions



Grp.	Order Number	LI	L2	W	T	Weight Ea
0	ST-COP-00-	1.094 in. (28 mm)	0.370 in. (9 mm)	1.223 in. (31mm)	0.120 in. (3 mm)	0.04 lbs
1	ST-COP-01-*	1.362 in. (36 mm)	0.790 in. (20 mm)	1.223 in. (31mm)	0.120 in. (3 mm)	0.05 lbs
2	ST-COP-02-*	1.592 in. (40 mm)	1.020 in. (26 mm)	1.223 in. (31mm)	0.120 in. (3 mm)	0.06 lbs
3	ST-COP-03-*	1.872 in. (48 mm)	1.300 in. (33 mm)	1.223 in. (31mm)	0.120 in. (3 mm)	0.07 lbs
4	ST-COP-04-*	2.152 in. (55 mm)	1.580 in. (40 mm)	1.223 in. (31mm)	0.120 in. (3 mm)	0.08 lbs
5	ST-COP-05-*	2.790 in. (71 mm)	2.050 in. (52 mm)	1.223 in. (31mm)	0.120 in. (3 mm)	0.10 lbs
6	ST-COP-06-*	3.340 in. (85 mm)	2.600 in. (66 mm)	1.223 in. (31mm)	0.120 in. (3 mm)	0.15 lbs
.7	ST-COP-07-*	5.020 in. (128 mm)	4.250 ln (108 mm)	1.223 in. (31mm)	0.120 in. (3 mm)	0.18 lbs
7A	ST-COP-7A-*	5.776 in. (147 mm)	4.948 in (126 mm)	1.223 in. (31mm)	0.120 in. (3 mm)	0.27 lbs



			afety Plate	d. Salaka.		
Grp.	Order Number	L	W1	W2	T	Weight E
0	N/A				21	41
1	ST-SAF-01-*	1.330 in. (34 mm)	1.125 in. (29 mm)	0.440 in. (11.2 mm)	0.045 in. (1 mm)	0.05 lbs
2	ST-SAF-02-*	1.560 in. (40 mm)	1.125 in. (29 mm)	0.440 in. (11.2 mm)	0.045 in. (1 mm)	0.06 lbs
3	ST-SAF-03-*	1.872 in. (48 mm)	1.125 in. (29 mm)	0.440 in. (11.2 mm)	0.045 in. (1 mm)	0.07 lbs
4	ST-SAF-04-*	2.120 in. (54 mm)	1.125 in. (29 mm)	0.440 in. (11.2 mm)	0.045 in. (1 mm)	0.08 lbs
5	ST-SAF-05-*	2.760 in. (70 mm)	1.125 in. (29 mm)	0.460 in. (11.7 mm)	0.045 in. (1 mm)	0.10 lbs
6	ST-SAF-06-*	3.340 in. (85 mm)	1.125 in. (29 mm)	0.460 in. (11.7 mm)	0.045 in. (1 mm)	0.15 lbs
7	ST-SAF-07-*	5.020 in. (128 mm)	1.125 in. (29 mm)	0.460 in. (11.7 mm)	0.045 in. (1 mm)	0.18 lbs
7A	C/F	<u>2</u>	£	9.	- 4	
*Mate	rials: Z	Zinc Plated Ste	el (Standard N	faterial)		
	т			el (A2 -1.4301/1		
	X		Stainless Ste on Steel (Spec	el (A4 -1.4401/1	1.4571)	





Grp.	Order Number	L	Thread	Weight Ea
0	ST-HEX-01-*	1.250 in. (30 mm)	1/4 - 20 UNC M6	0.02 lbs
1	ST-HEX-01-*	1.250 in (30 mm)	1/4 - 20 UNC M6	0.02 lbs
2	ST-HEX-02-	1.500 in. (35 mm)	1/4 - 20 UNC M6	0.02 lbs
3	ST-HEX-03-	1.500 in. (35 mm)	1/4 - 20 UNC M6	0.02 lbs
4	ST-HEX-04-*	1.750 in. (45 mm)	1/4 - 20 UNC M6	0.03 lbs
5	ST-HEX-05-*	2.500 in. (65 mm)	1/4 - 20 UNC M6	0.04 lbs
6	ST-HEX-06-*	2.750 in. (70 mm)	1/4 - 20 UNC M6	0.04 lbs
7	ST-HEX-07-*	4.500 in. (114 mm)	1/4 - 20 UNC M6	0.06 lbs
7A.	ST-HEX-7A-*	5.000 in. (127 mm)	1/4 - 20 UNC M6	0.06 lbs

As ordered above, the weld plates have standard 1/4 - 20 UNC Thread By adding the "-MET" designation after the material designation above, the threads are M6 Metric Thread



* Consult Factory



		Sta	cking Bolt	[STB]		
Grp.	Order Number	L1	1.2	L3	Thread	Weight Ea
0	ST-STB-00-*	1.438 in. (36.5 mm)	0.813 in. (21 mm)	0.75 in. (19 mm)	1/4 - 20 UNC M6	0.03 lbs.
1	ST-STB-00-*	1.438 in. (36.5 mm)	0.813 in. (21 mm)	0.75 in. (19 mm)	1/4 - 20 UNC M6	0.03 lbs.
2	ST-STB-02-*	1.688 in. (43 mm)	1.063 in. (27 mm)	0.75 in. (19 mm)	1/4 - 20 UNC M6	0.04 lbs.
3	ST-STB-02-*	1.688 in. (43 mm)	1.063 In. (27 mm)	0.75 in. (19 mm)	1/4 - 20 UNC M6	0.04 lbs.
4	ST-STB-04-*	1.938 in. (49 mm)	1.313 in. (33 mm)	0.75 in. (19 mm)	1/4 - 20 UNC M6	0.04 lbs.
5	ST-STB-05-*	2,688 in. (68 mm)	2.063 in. (52 mm)	0.75 in. (19 mm)	1/4 - 20 UNC M6	0.05 lbs.
6	ST-STB-06-*	2.938 in. (75 mm)	2.313 in. (59 mm)	0.75 in. (19 mm)	1/4 - 20 UNC M6	0.05 lbs.
7	ST-STB-07-*	4.688 in. (119 mm)	4.063 in. (103 mm)	0.75 in. (19 mm)	1/4 - 20 UNC M6	0.08 lbs.
7A	C/F	12	-	24		
'Mate	rials: Z		eel (Standard M		340745	
	T		Stainless Stee			
	x		Stainless Stee		/1.4571)	
	С	Unplated Carbo	on Steel (Specia	al Material)		
Threa	ds: omit				dard 1/4 - 20 UN material designa	

Complete Assembly Ordering Code

chart 1 chart 2 chart 3 chart 4 chart 5 S T 41050-PP-MET

	Clamp Configuration
S	Complete Clamp for Weld Mounting
BS	Complete Clamp for Bolt Mounting
DS	Complete Double Clamp for Weld Mounting
R0S	Complete Clamp for mounting to RAL-0
R1S	Complete Clamp for mounting to RAL-1
US	Complete Clamp for mounting to Strut Channel
G*S	Complete Clamp for Group Weld Plate Mounting
SSK	Stacking Kit

	Hardware Material
Omit	Electro-Zinc Dichromate Plating
T	AISI 304 Stainless Steel (A2 - 1.4301/1.4305)
X	AISI 316/316Ti Stainless Steel (A4 - 1.4401/1.4571)

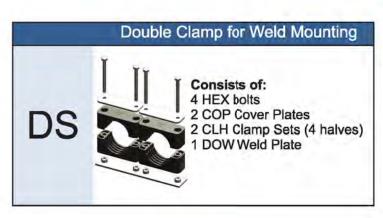
	Clamp Pair Material (4)
PP	Polypropylene
SP	Santoprene (not available in group 0)
AL	Aluminum (not available in groups 0, 7, or 7A)

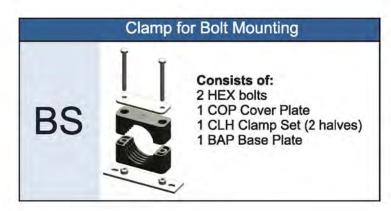
	Threads	6 5
Omit	UNC Thread (Standard)	
MET	Metric Thread	

	Clár	np Gro	oup and		(hart)
Behringer Group	Pipe Size	Tube Size	Metric ØD (mm)	Imperial ØD (Inch)	Order No.
		1/4	6.40	0.250	0025
		3/8	9.50	0.375	0038
0	1/8		10.00	0.405	00405
		1/2	12.70	0.500	0050
		5/8	16.00	0.625	0062
		1/4	6.40	0.250	1025
			8.00	0.320	1032
1		3/8	9.50	0.375	1038
	1/8		10.00	0.405	10405
			12.00	0.472	10472
		3/8	9.50	0.375	2038
		1/2	12.70	0.500	2050
2	1/4		13.70	0.540	20540
=			15.00	0.591	2059
	1.0	5/8	16.00	0.625	2062
	3/8	2.0	17.10	0.675	20675
3		3/8	9.5	0.375	3038
			18.00	0.709	3070
		3/4	19.00	0.750	3075
	Property II		20.00	0.790	3079
	1/2		21.30	0.840	30840
	1000	7/8	22.20	0.875	3087
	100	1	25.40	1.000	3100
	3/4		26.70	1.050	41050
4		1 1/8	28 3/5	1.125	41125
			30.00	1.181	41181
		1 1/8	28.60	1.125	51125
		1 1/4	32.00	1.250	5125
	1		33.40	1.315	51315
-		4.4/0	35.00	1.378	51378
5		1 1/2	38.10	1.500	5150
	1		33.40	1.315	51315
		4 E/O	40.00	1.575	51575
	1 1/4	1 5/8	41.00	1.625	51625
	1 1/4	1 2/4	42.20	1.660	51660
	1 1/2	1 3/4	44.50	1.750	6175
6	1 1/2	2	48.30	1.900	61900
		2	50.80	2.000	6200
	-	2 1/4	53.00	2.087	62087
	2	2 1/4	57.20	2.250	7225
		2 1/2	60.30 63.50	2.375	72375
7	2 1/2	2 1/2		2.500	7250
	2 1/2	3	73.00	2.875	72875 7300
	3	3 1/2	76.20 88.90	3.000 3.500	7350
	3	4	102.00	4.000	7A400
7A	4	4 1/2	114.30	4.500	7A450

Ordering Examples

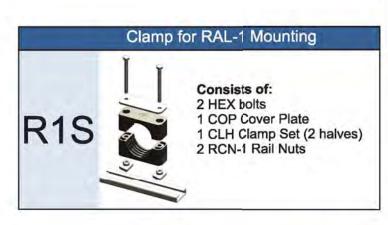


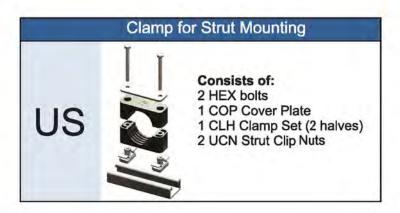


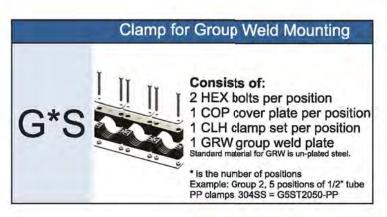




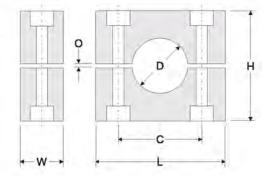








Behringer's clamp pairs are available in different materials and incorporate a modular insert by group size. The robust Heavy Series design is larger and thicker than the Standard Series, and is designed for the toughest applications. Heavy Series pipe clamps are available in sizes from ¼ in. (6.35mm) through 8.625 in. (219mm) outside diameter sizes, and various materials such as polypropylene, Santoprene, and aluminum. The clamp bore is offered in both the ribbed design for all sizes and now with a smooth bore design through group H6.







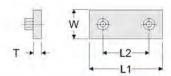


	CI	amp P	air Material Codes ((*)	
P	[PP] Polypropylene Black Color	s	[SP] Santoprene Beige Color	A	[AL] Aluminum Aluminum Color

			Cla	mp Pa	ir Sele	ction ar	nd Part	Numbe	rs					
Behringer Group	Size	Metric OD (mm)	Imperial OD (Inch)	L	С	н	o	w	Weight Ea.	Ribbed Inside Clamp Pair (See material for *)	Smooth Bore Clamp Pair (See material for *)			
	1/4 OD Tube	6.4	0.250							HS-CLH-03-*-025	HS-CLH-03-*-025SB			
	3/8 OD Tube	9.5	0.375						11 45	HS-CLH-03-*-038	HS-CLH-03-*-038SB			
	1/8 Pipe	10.0	0.405	2.250 in.	1,300 in.	1.375 in.	0.063 in.	1.188 in.		HS-CLH-03-*-041	HS-CLH-03-*-041SB			
Н3	1/2 OD Tube	12.7	0.500	(57 mm)	(33 mm)	(35 mm)	(1.6 mm)	(30.2 mm)	0.07 lbs	HS-CLH-03-*-050	HS-CLH-03-*-050SB			
	1/4 Pipe	13.7	0.540	(or miny	(55 1111)	(33 11111)	(1.0 11111)	(50.2 11111)	7 1 1 1	HS-CLH-03-*-054	HS-CLH-03-*-054SB			
	5/8 OD Tube	16.0	0.625							HS-CLH-03-*-062	HS-CLH-03-*-062SB			
	3/8 Pipe	17.1	0.675							HS-CLH-03-*-068	HS-CLH-03-*-068SB			
	3/4 OD Tube	19.0	0.750							HS-CLH-04-*-075	HS-CLH-03-*-075SB			
	20 mm	20.0	0.790							HS-CLH-04-*-079	HS-CLH-03-*-079SB			
	1/2 Pipe	21.3	0.840						I II II III Inc	HS-CLH-04-*-084	HS-CLH-03-*-084SB			
	7/8 OD Tube	22.2	0.875							HS-CLH-04-*-087	HS-CLH-03-*-087SB			
	24 mm	24.0	0.944	2.750 in.	1.770 in.	1.875 in.	0.063 in.	1.188 in.		HS-CLH-04-*-095	HS-CLH-03-*-095SB			
H4	25 mm	25.0	0.984	(70 mm)	(45 mm)	(48 mm)	(1.6 mm)	(30.2 mm)	0.09 105	HS-CLH-04-*-098	HS-CLH-03-*-098SB			
	1 OD Tube	25.4	1.000							HS-CLH-04-*-100	HS-CLH-03-*-100SB			
	3/4 Pipe	26.7	1.050							HS-CLH-04-*-105	HS-CLH-03-*-105SB			
	28 mm	28.0	1.102							HS-CLH-04-*-110	HS-CLH-03-*-110SB			
	30 mm	30.0	1,181							HS-CLH-04-*-118	HS-CLH-03-*-118SB			
	1 1/4 OD Tube	32.0	1.250		OF THE	OUTOTAL	OD O'AT						HS-CLH-06-*-125	HS-CLH-05-*-125SB
9024	1 Pipe	33.4	1.315	3.344 in.	2.360 in.	2.375 in.	0.063 in.	1.188 in.	2000	HS-CLH-05-*-132	HS-CLH-05-*-132SB			
H5	1 1/2 OD Tube	38.1	1,500	(87 mm)	(60 mm)	(60 mm)	(1.6 mm)	(30.2 mm)	0.15 lbs	HS-CLH-05-*-150	HS-CLH-05-*-150SB			
	1 1/4 Pipe	42.2	1.660	660	100 0000	1,000	1.55	Acces 1004	- '	HS-CLH-06-*-166	HS-CLH-05-*-166SB			
	1 Pipe	33.4	1.315			0 in. 3.500 in.	0.125 in.	. 1.688 in.		HS-CLH-06-*-132	HS-CLH-06-*-132SB			
	1 1/4 Pipe	42.2	1.660							HS-CLH-06-*-166	HS-CLH-06-*-166SB			
	1 3/4 OD Tube	44.5	1.750							HS-CLH-06-*-175	HS-CLH-06-*-175SB			
	1 1/2 Pipe	48.3	1.900							HS-CLH-06-*-190	HS-CLH-06-*-190SB			
	2 OD Tube	50.8	2.000	4.500 in.	3.530 in.					HS-CLH-06-*-200	HS-CLH-06-*-200SB			
H6	2 1/8 OD Tube	54.0	2.125	(115 mm)	(90 mm)	(89 mm)	(3.2 mm)	(43 mm)	0.35 lbs	HS-CLH-06-*-213	HS-CLH-06-*-213SB			
	2 1/4 OD Tube	57.2	2.250	1	3	,	4	**************************************	1	HS-CLH-06-*-225	HS-CLH-06-*-225SB			
	2 Pipe	60.3	2.375							HS-CLH-06-*-238	HS-CLH-06-*-238SB			
	2 1/2 OD Tube	63.5	2.500							HS-CLH-06-*-250	HS-CLH-06-*-250SB			
	2 3/4 OD Tube	69.9	2.750							HS-CLH-06-*-275	HS-CLH-06-*-275SB			
	2 3/4 OD Tube	69.9	2.750							HS-CLH-07-*-275	THE SERVICE LIVER			
0.00	2 1/2 OD Pipe	73.0	2.875	6,000 in.	4.810 in.	4.750 in.	0.125 in.	2.188 in.	4.50.00	HS-CLH-07-*-288	1			
H7	3 OD Tube	76.2	3.000	1 Table 1 Table 1 Table 1	(122 mm)	(121 mm)	(3.2 mm)	(55.6 mm)	0.78 lbs	HS-CLH-07-*-300	1			
	3 Pipe	88.9	3.500	,,,,,,,	,	7	(=== 11111)	Acres miny		HS-CLH-07-*-350	1			
	3 Pipe	88.9	3.500							HS-CLH-03-*-350	1			
	4 OD Tube	102	4.000	8.063 in.	6.620 in.	6.625 in.	0.188 in.	2.938 in.	acon.	HS-CLH-03-*-400	1			
H8	4 Pipe	114	4.500	(205 mm)	(168 mm)	(168 mm)	(4.8 mm)	(74.6 mm)	2.31 lbs	HS-CLH-03-*-450	1			
	5 OD Tube	127	5.000	(20011111)	(100 min)	(100 mil)	(4.5 11111)	(1-1.0 11111)		HS-CLH-03-*-500	1			
	5 OD Tube	127	5.000							HS-CLH-09-*-500	4			
	5 1/4 OD Tube	133	5.250	and the second	and an arms			100		HS-CLH-09-*-525	1			
Н9	5 Pipe	141	5.563	9.750 in.	8.060 in.	7.875 in.	0.188 in.	3.438 in.	2.59 lbs	HS-CLH-09-*-556	4			
113	6 OD Tube	152	6.000	(248 mm)	(205 mm)	(200 mm)	(4.8 mm)	(87.3 mm)	2.00 108	HS-CLH-09-*-600	1			
	6 Pipe	168	6.625		3					HS-CLH-09-*-663	4			
		168		-							1			
	6 Pipe 7 OD Tube		6.625 7.000	12 500 16	10 420 in	10 605 in	0.188 in.	4.438 in.	Laura 3	HS-CLH-10-*-663	4			
H10		178			10.430 in.	10.625 in.	5.4466.444	100000000000000000000000000000000000000	7.73 lbs	HS-CLH-10-*-700	4			
	8 OD Tube	203	8.000	(2.10 mm)	(265 mm)	(270 mm)	(4.8 mm)	(113 mm)	1000	HS-CLH-10-*-800	-			
	8 Pipe	219	8.625							HS-CLH-10-*-863				

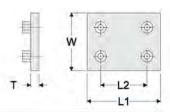
Securing Plate Selection and Dimensions





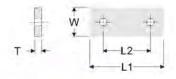
Grp.	Order	Number	L1	L2	W	T	Thread	Weight Ea
нз	HS-SI	WP-03-*	2.875 in. (73 mm)	1.30 in. (33 mm)	1.25 in. (32 mm)	0.313 in. (8 mm)	3/8 - 16 UNC (M10)	0.34 lbs
H4	HS-SI	WP-04-*	3.375 in. (86 mm)	1.77 in. (45 mm)	1.25 in. (32 mm)	0.313 in. (8 mm)	3/8 - 16 UNC (M10)	0.39 lbs
H5	HS-SI	WP-05-*	4.000 in. (102 mm)	2.36 in. (60 mm)	1.25 in. (32 mm)	0.313 in. (8 mm)	3/8 - 16 UNC (M10)	0.45 lbs
H6	HS-SI	WP-06-*	5.875 in. (149 mm)	3.53 in. (90 mm)	1.75 in. (45 mm)	0.375 in. (10 mm)	7/16 - 14 UNC (M12)	1,10 lbs
H7	HS-SI	WP-07-*	7.375 in. (187 mm)	4.81 in. (122 mm)	2.25 in. (57 mm)	0.375 in. (10 mm)	5/8 - 11 UNC (M16)	1.71 lbs
Н8	HS-SI	WP-08-*	10.000 in. (254 mm)	6.62 in. (168 mm)	3.00 in. (76 mm)	0.500 in. (13 mm)	3/4 - 10 UNC (M20)	4.15 lbs
H9	HS-SI	WP-09-*	11.750 in. (298 mm)	8.06 in. (205 mm)	3.50 in. (89 mm)	0.500 in. (13 mm)	7/8 - 9 UNC (M24)	5.83 lbs
H10	HS-SI	WP-10-*	14.500 in. (368 mm)	10.43 in. (265 mm)	4.50 in. (114 mm)	0.750 in, (19 mm)	1-1/8 - 7 UNC (M30)	13,65 lbs
*Mat	erials: ads:	C T X Z omit	AISI 304 G AISI 316 G Zinc Plater As ordered By adding	Grade Stain Grade Stain d Steel (Sp d above, the	designation	(A2 - 1.430 (A4 - 1.440) s have sta		





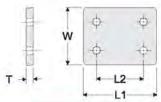
Grp.	Order	Number	L1	12	W	Ť	Thread	Weight Ea
нз	HS-DV	VP-03-*	2.875 in. (73 mm)	1.30 in. (33 mm)	2.50 in. (32 mm)	0.313 in. (8 mm)	3/8 - 16 UNC (M10)	0.72 lbs
H4	HS-DV	VP-04-*	3.375 in. (86 mm)	1.77 in. (45 mm)	2,50 in. (32 mm)	0.313 in. (8 mm)	3/8 - 16 UNC (M10)	0.78 lbs
H5	HS-DV	VP-05-*	4.000 in. (102 mm)	2.36 in. (60 mm)	2,50 in. (32 mm)	0,313 in. (8 mm)	3/8 - 16 UNC (M10)	0.90 lbs
H6	HS-DV	VP-06-*	5.875 in. (149 mm)	3.53 in. (90 mm)	3,50 in. (89 mm)	0.375 in. (10 mm)	7/16 - 14 UNC (M12)	2.20 lbs
Н7	HS-DV	VP-07-*	7.375 in. (187 mm)	4.81 in. (122 mm)	4.50 in. (114 mm)	0,375 in. (10 mm)	5/8 - 11 UNC (M16)	3.42 lbs
нв	HS-DV	VP-08-*	10.000 in. (254 mm)	6.62 in. (168 mm)	7.00 in. (178 mm)	0.500 in. (13 mm)	3/4 - 10 UNC (M20)	8.30 lbs
Н9	HS-DV	VP-09-*	11.750 in. (298 mm)	8.06 in. (205 mm)	7.00 in. (178 mm)	0.500 in. (13 mm)	7/8 - 9 UNC (M24)	11,75 lbs
H10	HS-DV	VP-10-*	14.500 in. (368 mm)	10.43 in. (265 mm)	9.375 in. (238 mm)	0.750 ln. (19 mm)	1-1/8 - 7 UNC (M30)	28.00 lbs
Mate	eriais:	C T X Z	AISI 304 C	Grade Stain Grade Stain	el (Standard less Steel (less Steel (lecial Order	A2 - 1.430 A4 - 1.440		
Threa	ads:	omit -MET	By adding		designation		ndard UNC three material design	





Grp.	Order N	lumber	L1	1.2	W	T	Weight Ea
НЗ	HS-SCF	°-03-*	2.250 in. (57 mm)	1.30 in. (33 mm)	1.25 in. (32 mm)	0.313 in. (8 mm)	0.21 lbs
H4	HS-SCF	-04-*	2.750 in. (70 mm)	1.77 in. (45 mm)	1.25 in. (32 mm)	0.313 in. (8 mm)	0.26 lbs
H5	HS-SCF	-05-*	3.344 in. (85 mm)	2.36 in. (60 mm)	1.25 in. (32 mm)	0.313 in. (8 mm)	0.32 lbs
Н6	HS-SCF	-06-*	4.500 in. (114 mm)	3.53 in. (90 mm)	1.75 in. (45 mm)	0.375 in. (10 mm)	0.77 lbs
H7	HS-SCF	P-07-*	6.000 in. (152 mm)	4.81 in. (122 mm)	2.25 in. (57 mm)	0.375 in. (10 mm)	1.28 lbs
Н8	HS-SCF	°-08-*	8.063 in. (205 mm)	6.62 in. (168 mm)	3.00 in. (76 mm)	0.500 in. (13 mm)	3.19 lbs
H9	HS-SCF	-09-*	9.813 in. (249 mm)	8,06 in. (205 mm)	3.50 in. (89 mm)	0.500 in. (13 mm)	4.58 lbs
H10	HS-SCF	-10-*	12.500 in. (318 mm)	10.43 in. (265 mm)	4.50 in. (114 mm)	0.750 in. (19 mm)	11.31 lbs
Mate	orials:	X	AISI 304 C		less Sted (A2 - 1.4301/ A4 - 1.4401/	





Grp.	Order I	Number	L1	L2	W	T	Weight Ea
НЗ	HS-DC	P-03-*	2.250 in. (57 mm)	1.30 in. (33 mm)	2.50 in. (32 mm)	0.313 in. (8 mm)	0.42 lbs
H4	HS-DCI	P-04-*	2.750 in. (70 mm)	1.77 in. (45 mm)	2.50 in (32 mm)	0.313 in. (8 mm)	0.52 lbs
H5	HS-DC	P-05-*	3.344 in. (85 mm)	2.36 in. (60 mm)	2.50 in (32 mm)	0.313 in. (8 mm)	0.64 lbs
H6	HS-DC	P-06-*	4.500 in. (114 mm)	3.53 in. (90 mm)	3.50 in (89 mm)	0.375 in. (10 mm)	1.54 lbs
H7	HS-DC	P-07-*	6.000 in. (152 mm)	4.81 in. (122 mm)	4.50 in. (114 mm)	0.375 in. (10 mm)	2.56 lbs
H8	HS-DCI	P-08-*	8.063 In. (205 mm)	6.62 in. (168 mm)	7.00 in. (178 mm)	0.500 in. (13 mm)	6.38 lbs
H9	HS-DC	P-09-*	9.813 in. (249 mm)	8.06 in. (205 mm)	7.00 in. (178 mm)	0.500 in. (13 mm)	9.16 lbs
H10	HS-DC	P-10-*	12.500 in. (318 mm)	10.43 in. (265 mm)	9.375 in. (238 mm)	0.750 in. (19 mm)	22.62 lbs
Mat	erials:	C T X Z	AISI 304 C		less Steel	(A2 - 1.4301/ (A4 - 1.4401/	

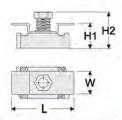
Fastening Hardware Selection and Dimensions





Grp.		Order Number	L	Thread	Weight Ea
НЗ	HS-HEX-04-*- HS-HEX-05-*-		1.75 in. (44 mm)	3/8 - 16 UNC M10	0.06 lbs
H4			2.25 in. (57 mm)	3/8 - 16 UNC M10	0.06 lbs
H5			2.75 in. (70 mm)	3/8 - 16 UNC M10	0.09 lbs
H6	- 3	HS-HEX-06-*-	4.00 in. (102 mm)	7/16 - 14 UNC M12	0.18 lbs
H7		HS-HEX-07-*-	5.25 in. (133 mm)	5/8 - 11 UNC M16	0.50 lbs
H8	- 3	HS-HEX-08-*-	7.50 in. (191 mm)	3/4 - 10 UNC M20	0.97 lbs
Н9		HS-HEX-09-*-	8.50 in. (216 mm)	7/8 - 9 UNC M24	1.56 lbs
H10	- 1	HS-HEX-10-*-	11.75 in. (298 mm)	1-1/8 - 7 UNC M30	3.53 lbs
"Materials:	C T X	AISI 304 Grade Stair	eel (Standard Material) bless Steel (A2 - 1.4301 bless Steel (A4 - 1.4401 andard Material)	12 March 16	
Threads:	Omit -MET		" designation after the	andard 1/4 - 20 UNC The material designation abo	



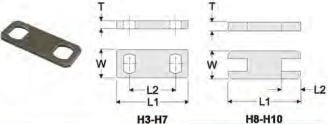


Grp.	Order	Number	L	W	H1	H2	Thread	Weight Ea
H3-H5	HS-U	CN-345-*	1.500 in. (38 mm)	0.980 in. (25 mm)	0.728 in. (18.5 mm)	1.083 in. (2.75 mm)	3/8 - 16 UNC	0.2 lbs
H6	HS-U	CN-06-*	1.790 in (44 mm)	0.980 in. (25 mm)	0.610 in. (15.5 mm)	0.990 in. (25 mm)	7/16 - 14 UNC	0.3 lbs
'Mate	rials:	T X	AISI 304 G	ade Stainle	dard Materia ss Steel (A2 ss Steel (A4	- 1.4301/1.4		
Threa	ds:	omit -MET	By adding t	he "-MET" o	weld plates h designation a tric (Special	fter the mat	erial design	nation above





Grp.	0	rder Number	L1	L2	L3	Thread	Weight Ea
Нз	HS-STB-03-*		1.969 in. (50 mm)	0.906 in. (23 mm)	0.906 in. (23 mm)	3/8 - 16 UNC M10	0.10 lbs
H4			2.469 in. (63 mm)	1.406 in. (36mm)	1.000 in. (25.4 mm)	3/8 - 16 UNC M10	0.11 lbs
H5	ŀ	HS-STB-05-*	2.969 in. (75 mm)	1.906 in. (48 mm)	1.000 in. (25.4 mm)	3/8 - 16 UNC M10	0.13 lbs
H6	ŀ	IS-STB-06-*	4.250 in. (108 mm)	2.875 In. (73 mm)	1.250 in. (32 mm)	7/16 - 14 UNC (M12)	0.24 lbs
H7		IS-STB-07-*	5.50 in. (140 mm)	3.875 in. (98 mm)	1.250 in. (32 mm)	5/8 - 11 UNC (M16)	0.49 lbs
H8	H	IS-STB-08-*	7.750 in. (197 mm)	5.750 in. (146 mm)	1.500 in. (38 mm)	3/4 - 10 UNC (M20)	1.15 lbs
Н9		IS-STB-09-*	9.188 in. (233 mm)	7.000 in. (178 mm)	1.750 in. (44 mm)	7/8 - 9 UNC (M24)	1.65 lbs
H10		IS-STB-10-*	12.000 in. (305 mm)	9.500 in. (241 mm)	2.250 in. (57 mm)	1-1/8 - 7 UNC (M30)	2.50 lbs
*Materials:	C T X	Unplated Carb AISI 304 Grade AISI 316 Grade Zinc Plated Ste	Stainless St Stainless St	eel (A2 - 1. eel (A4 - 1.	4301/1.4305	*	
Threads:	omit -MET	As ordered ab By adding the the treads w	"-MET" desig			JNC thread al designation ab	ove,



			H3-H7		H8-1	110
		s	afety Pla	te [SAF]		
Grp.	Order Number	Li	L2	W	T	Weight Ea
НЗ	HS-SAF-03-*	2.281 in. (58 mm)	1.300 in. (33 mm)	1,219 in. (31 mm)	0.125 in. (3.2 mm)	0.06 lbs.
H4	HS-SAF-04-*	2.750 in. (70 mm)	1.770 in. 45 mm)	1.219 in. (31 mm)	0.125 in. (3.2 mm)	0.08 lbs.
H5	HS-SAF-05-*	3.344 in. (85 mm)	2.360 in. (60 mm)	1.219 in. (31 mm)	0.125 in. (3.2 mm)	0,11 lbs.
H6	HS-SAF-06-*	4.531 in. (115 mm)	3.530 ln. (90 mm)	1.625 in. (41 mm)	0.188 in. (4.8 mm)	0,31 lbs.
H7	HS-SAF-07-*	5.938 in. (151 mm)	4.812 in. (122 mm)	2.125 in. (54 mm)	0.188 in. (4.8 mm)	0.58 lbs.
H8	HS-SAF-08-*	8.000 in. (203 mm)	1.313 in. (33 mm)	2.938 in. (75 mm)	0.375 in. (9.5 mm)	1.43 lbs.
H9	HS-SAF-09-*	9.750 in. (248 mm)	1.750 in. (44 mm)	3.438 in. (87 mm)	0.375 in. (9.5 mm)	2.17 lbs.
H10	HS-SAF-10-*	12.438 in. (316 mm)	1.906 in. (48 mm)	4.438 in. (113 mm)	0.250 in. (6.3 mm)	3.25lbs.

AISI 304 Grade Stainless Steel (A2 - 1.4301/1.4305) AISI 316 Grade Stainless Steel (A4 - 1.4401/1.4571)

Zinc Plated Steel (Special Order)

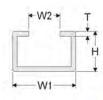
Rail Mounting Selection and Dimensions





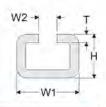
Grp.	Orde	Number	ØD1	ØD2	H1	H2	H3	Thread
H3 H4 H5	HS-R	CN-99-*-RN7	0.698 in. (17.8 mm)	0.750 in. (19 mm)	0.750 in. (19 mm)	0.219 in. (5.6 mm)	0.297 in. (7.6 mm)	3/8 - 16 UNC M10
Н6	HS-R	CN-99-"-RN8	0.778 in (19.8 mm)	0.875 in (22.2 mm)	0.813 in (20.7 mm)	0,219 in (5.6 mm)	0.359 in. (9.1 mm)	7/16 - 14 UNC M12
Н7	HS-R	CN-99-*-RN9	0.938 in. (23.8 mm)	1.125 in. (28.6 mm)	1.700 in. (43.2 mm)	0.375 in. (9.5 mm)		5/8 - 11 UNC M16
H8 H9 H10		N/A	.6	-	+	4	÷	4
*Mate	rials:	C T X Z	AISI 304 G	irade Stainl Irade Stainl	ess Steel (A ess Steel (A ess Steel (A ecial Order)	A2 - 1.4301 A4 - 1.4401		
Threa	ds:	omit -MET	By adding					hread ignation above





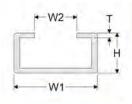
	Mo	ounting	Rail [R	AL-2]			
Grp.	Order Number	W1	W2	I	н	Length	Weight
H3-H5	HS-RA2-99-*-XXX	1.750 in. (44.4 mm)		0.125 in. (3 mm)	0.750 in. (19 mm)	6FT 3FT	8.7 lbs 4.4 lbs
*Materials:	C Unplated Co T AISI 304 Gr X AISI 316 Gr Z Zinc Plated	ade Stainles	s Steel (A s Steel (A	2 - 1.4301/			
XXX Length:	3FT 72 in. (1829 3FT 36 in. (914 n -Custom sizes av	nm) length (special Ler				





	M	ounting	Rail [F	RAL-4]			
Grp.	Order Number	W1	W2	T	н	Length	Weight
H3-H7	HS-RA4-99-*-XX		0.469 in. (12 mm)	0.188 in. (5 mm)	0.875 in. (22 mm)	2ME 1ME	16.8 lbs
Materials:	T AISI 304 G	Carbon Stee Frade Stainle Frade Stainle d Steel (Spe	ess Steel (/ ess Steel (/	A2 - 1.4301 A4 - 1.4401			
XXX Length:		m) length (5 mm) length vallable on requ	(special L				





Grp.	Order Number		W1	W2	T	Н	Length	Weight
Н6	HS-F	RA3-06-*-XXX	2.125 in. (54 mm)	1.000 in. (25.4 mm)	0.125 in. (3 mm)	0.813 in. (20.7 mm)	6FT 3FT	8 lbs 4 lbs
'Materials:	T X Z	Unplated Ca AISI 304 Gra AISI 316 Gra Zinc Plated	ide Stainle ide Stainle	ss Steel (A2	1.4301/	1.4305)		
XXX Length:	SFT 3FT	72 in. (1829 i 38 in. (914 m Gunlom sizes sys	m) length	(special Len				

Complete Assembly Ordering Code

chart 1 chart 2

chart 3

chart 4 chart 5

chart 6

SH T 41050-PPSB-MET

	Clamp Configuration (1)
SH	Single Heavy Complete Clamp for Weld Mounting
DH	Double Heavy Complete Clamp for Weld Mounting
R7H	Complete Clamp for mounting to RAL-4 (H3-H5)
R8H	Complete Clamp for mounting to RAL-4 (H6)
R9H	Complete Clamp for mounting to RAL-4 (H7)
UH	Complete Clamp for mounting to Strut Channel (H3-H6)
HSK	Heavy Stacking Kit
ОН	Single Heavy Clamp with no Bottom Plate
BSH	Single Heavy Complete Clamp for Bolt Mounting

	Hardware Material 2
Omit	Untreated Carbon Steel
T	AISI 304 Stainless Steel (A2 - 1.4301/1.4305)
X	AISI 316/316Ti Stainless Steel (A4 - 1.4401/1.4571)
Z	Electro-Zinc Dichromate Plating

	Clamp Pair Material	4
PP	Polypropylene	
SP	Santoprene	
AL	Aluminum	

	Clamp Pair Design	(fair)
Omit	Ribbed Inside	
SB	Smooth Bore Inside (groups H3-H6 only)	

	Threads	thart 6
Omit	UNC Thread (Standard)	
MET	Metric Thread	

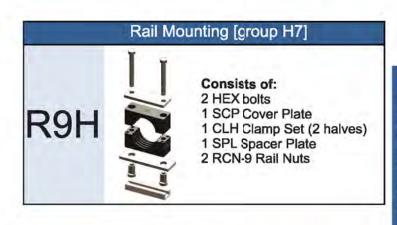
	Cla	mp Gro	oup and	Size	chart 3
Behringer Group	Pipe Size	Tube Size	Metric OD (mm)	Imperial OD (Inch)	Clamp Halves
		1/4	6.4	0.250	3025
1		3/8	9.5	0.375	3038
1	1/8		10.0	0.405	30405
НЗ		1/2	12.7	0.500	3050
W - 1	1/4	10 10 10 10	13.7	0.540	30540
		5/8	16.0	0.620	3062
	3/8	An amount of	17.1	0.675	30675
		3/4	19.0	0.750	4075
	E-,! -		20.0	0.790	4079
	1/2		21.3	0.840	40840
H4		7/8	22.2	0.875	4087
H4	+	MALT	25.0	0.984	40984
- 1		1-	25.4	1.000	4100
- 1	3/4	1	26.7	1.050	41050
- 1		/ 275001	30.0	1.181	41181
		1 1/4	32.0	1.250	5125
Н5	1		33.4	1.315	51315
		1 1/2	38.1	1.500	5150
	1 1/4		42.2	1.660	51660
-	1		33.4	1.315	61315
	1 1/4		42.2	1.660	61660
- 1		1 3/4	44.5	1.750	6175
1	1 1/2		48.3	1.900	61900
322		2	50.8	2.000	6200
Н6		2 1/8	54.0	2.125	62125
		2 1/4	57.2	2.250	6225
	2	- 0.0	60.3	2.375	62375
- 1		2 1/2	63.5	2.500	6250
- 3		2 3/4	69.9	2.750	6275
_	_	2 3/4	69.9	2.750	7275
5.00	2 1/2	2.9/3	73.0	2.875	72875
H7	- 04	3	76.2	3.000	7300
	3	3 1/2	88.9	3.500	7350
	3	3 1/2	88.9	3.500	83500
I		4	102	4.000	8400
Н8	4	4 1/2	114	4.500	8450
ŀ		5	127	5.000	8500
		5	127	5.000	9500
ŀ		5 1/4	133	5.250	9525
Н9	5	- 1/1	141	5.563	95563
0.7450		6	152	6.000	9600
ŀ	6		168	6.625	96625
	6		168	6.625	06625
ł		7	178	7.000	0700
H10		8	203	8.000	0800
ł	8		219.0	8.625	08625

Ordering Examples

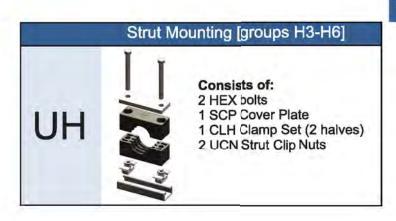








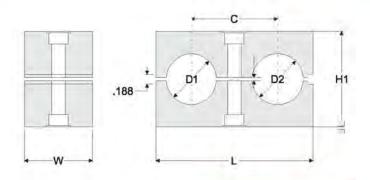




Behringer's clamp pairs are available in different materials and incorporate a modular insert by group size. The Twin Series is available in sizes from ¼ in. (6.35mm) through 1.660 in. (42mm) outside diameter sizes. The design of the twin series has 2 holes in one clamp, making it ideal for dual runs of pipe, tubing, or hose.





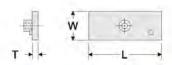


	Clamp Pair Material Codes (*)					
P	[PP] Polypropylene Black Color	s	[SP] Santoprene Beige Color			

Behringer Group	Size	Metric ØD (mm)	Imperial ØD (Inch)	L	С	Н	w	Weight Ea.	Clamp Pair (See material for *)	Smooth Bore Clamp Pair (See material for *														
	1/4 OD Tube	6.4	0.250	4.405:-	0.707:-	1.038 in.	1.195 in.		TS-CLH-01-*-025	TS-CLH-01-*-025SB														
T1	3/8 OD Tube	9.5	0.375	1.435 in.		(26.4 mm) (30.4 mm) 0.0	0.02 lbs	TS-CLH-01-*-038	TS-CLH-01-*-038SB															
	12 mm	12.0	0.472	(00.0 11111) (20 111	(20 11111)	(20.4 11111)	(50.4 11111)		TS-CLH-01-*-047	TS-CLH-01-*-047SE														
	1/4 OD Tube	6.4	0.250						TS-CLH-02-*-025	TS-CLH-02-*-025SE														
	3/8 OD Tube	9.5	0.375			1 110 in	4 000 :-	4.405 :		TS-CLH-02-*-038	TS-CLH-02-*-038SE													
	1/8 Pipe	10.0	0.405	0.405	4 440 :					TS-CLH-02-*-041	TS-CLH-02-*-041SE													
T2	1/2 OD Tube	12.7	0.500	[] [] [] [] [] [] [] [] [] []	1	(53.5 mm) (29 m	The state of the s	The state of the s	The state of the s	200 C C C C C C C C C C C C C C C C C C	The state of the s	Description of the second	Description of the second	Demonstration of the contract	Page 1 Transport of the Control of t	Description of the second	Description (and the control of	(53.5 mm) (29			1.195 in.	0.03 lbs	TS-CLH-02-*-050	TS-CLH-02-*-050SE
	1/4 Pipe	13.7	0.540																(00.0 11111) (2	(29 11111)	(20.4 11111)	(55.4 11111)		TS-CLH-02-*-054
	5/8 OD Tube	16.0	0.625								TS-CLH-02-*-062	TS-CLH-02-*-062SE												
	3/8 Pipe	17.0	0.675						TS-CLH-02-*-068	TS-CLH-02-*-068SE														
	3/4 OD Tube	19.0	0.750		2.660 in. 1.41 (67.6 mm) (36 r					TS-CLH-03-*-075	TS-CLH-03-*-075SE													
TO	1/2 Pipe	21.3	0.840						1.195 in.	0.07 lbs	TS-CLH-03-*-084	TS-CLH-03-*-084SE												
Т3	7/8 OD Tube	22.2	0.875			(36 mm)	(40.1 mm)	(30.4 mm)	0.07 108	TS-CLH-03-*-087	TS-CLH-03-*-087SE													
	1 OD Tube	25.4	1.000						TS-CLH-03-*-100	TS-CLH-03-*-100SE														
	7/8 OD Tube	22.2	0.875						TS-CLH-04-*-087	TS-CLH-04-*-087SE														
	1 OD Tube	25.4	1.000	3,313 in. (84.2 mm)		3.313 in.	3.313 in.	3,313 in.	3,313 in.	3,313 in.	3,313 in.	3,313 in.	3.313 in.	3,313 in.	1.772 in.	1.750 in.	1.195 in.	0.00 lba	TS-CLH-04-*-100	TS-CLH-04-*-100SE				
T4	3/4 Pipe	26.7	1.050			(45 mm)	(44.4 mm)	(30.4 mm)	0.09 lbs	TS-CLH-04-*-105	TS-CLH-04-*-105SE													
	1 1/8 OD Tube	28.6	1.125						TS-CLH-04-*-112	TS-CLH-04-*-112SE														
	3/4 OD Tube	19.0	0.750						TS-CLH-05-*-075	TS-CLH-05-*-075SE														
	1 1/4 OD Tube	32.0	1.250	1					TS-CLH-05-*-125	TS-CLH-05-*-125SE														
T5	1 Pipe	33.4	1.315	4.215 in.			1.195 in. (30.4 mm)	0.15 lbs	TS-CLH-05-*-132	TS-CLH-05-*-132SE														
	1 1/2 OD Tube	38,1	1.500	(107 mm)	(30 11111)	(57.1 111111)	(50.4 11111)		TS-CLH-05-*-150	TS-CLH-05-*-150SB														
	1 1/4 Pipe	42.2	1.660						TS-CLH-05-*-166	TS-CLH-05-*-166SB														

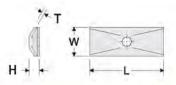
Hardware Selection and Dimensions





Grp.	C	Order Number		W	T	Thread	Weight Ea.			
T1	TS-TWP-01-		1.625 in. (41.3 mm)	1.20 in. (30.5 mm)	0.188 in. (5 mm)	1/4 - 20 UNC (M6)	0.09 lbs			
T2:	TS	-TWP-02-*-XXX	2.188 in. (56 mm)	1.20 in. (30.5 mm)		5/16 - 18 UNC (M8)	0.14 lbs			
Т3	TS	TWP-03-*-XXX	2.688 (68.3 mm)	1.20 in. (30.5 mm)		5/16 - 18 UNC (M8)	0.17 lbs			
T4	TS-TWP-04-*-XXX		3.445 in. (87.5 mm)	1.20 in. (30.5 mm)	724 72 7 7 7 7 7	5/16 - 18 UNC (M8)	0.20 lbs			
T5	TS-TWP-05-*-XXX		4.315 in. (110 mm)	1.20 in. (30.5 mm)		5/16 - 18 UNC (M8)	0.26 lbs			
*Materials:	z	Zinc Plated Stee	el (Standard I	Material)						
	T	T AISI 304 Grade Stainless Steel (A2 - 1.4301/1.4305)								
	X	AISI 316 Grade	Stainless Sta	sel (A4 - 1.4	1401/1.457	1)				
	C	Unplated Carbo	n Steel							
XXX Threads:	56H	5/16 - 18 UNC 7	Thread (Stan	dard)						
	38H	3/8 - 16 UNC Th	nread (Specia	al)						
	-MET	Metric Thread a	s stated in ch	nart (Specia	il)					





T1 TS-TCP-	(33.4 mr	n. 1.09in. m) (27.7 mm)	- 2	0.120 in	0.04%
T2 TS-TCP-				(3 mm)	0.04 lbs
	02-* 2.040 ir (52 mm		0.266 in. (7 mm)	0.120 in. (3 mm)	0,08 lbs
T3 TS-TCP-	03-* 2.542 (65 mm		0.266 in. (7 mm)	0.120 in. (3 mm)	0,10 lbs
T4 TS-TCP-	3.150 ir (80 mm		0.266 in. (7 mm)	0.120 in. (3 mm)	0,11 lbs
T5 TS-TCP-	05-* 4.125 ir (105 mr		0.266 in. (7 mm)	0.120 in. (3 mm)	0.14 lbs
*Materials: Z Zinc Pla	ted Steel (Standard I	Material)			
T AISI 304	Grade Stainless Ste	el (A2 - 1.4301	/1.4305)		
X AISI 316	Grade Stainless Ste	iel (A4 - 1440)	1/1.4571)		





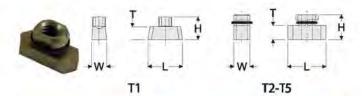
Grp.		Order Number	L	Thread	Weight Ea	
T1		ST-HEX-01-	1.25 in. (30 mm)	1/4 - 20 UNC M6	0.02 lbs	
T2	TS-HEX-02-*-XXX		TS-HEX-02-1-XXX 1.25 in. (35 mm)		0.03 lbs	
Т3	3 TS-HEX-03-*-XXX		1.75 in. (45 mm)	5/16 - 18 UNC M8	0.04 lbs	
T4	TS-HEX-04-*-XXX		"S-HEX-04-"-XXX 2,00 in, 50 mm)		0.05 lbs	
T5	Ţ	S-HEX-05-*-XXX	2.25 in. (55 mm)	5/16 - 18 UNC M8	0,06 lbs	
*Materials:	z	Zinc Plated Steel (Sta	andard Material)			
	T	AISI 304 Grade Stainless Steel (A2 - 1.4301/1.4305)				
	X	AISI 316 Grade Stain	less Steel (A4 - 1.440	1/1.4571)		
XXX Threads:	56H	5/16 - 18 UNC Thread	(Standard)			
	38H	3/B - 16 UNC Thread	(Special)			
	-MET	Metric Thread as state	ed in chart (Special)			





Grp.	-	Order Number	L1	L2	Thread	Weight Ea.		
T1		CF*		- 1		-59-		
T2	T	S-STB-02-*-XXX	1.25 in. (32 mm)	0.625 in. (16 mm)	5/16 - 18 UNC (M8)	0.04 lbs		
Т3	T	S-STB-03-*-XXX	1.75 in. (44 mm)	1.125 in. (29 mm)	5/16 - 18 UNC (M8)	0,05 lbs		
T4	T:	S-STB-04-*-XXX	2.00 in. (50.8 mm)	1.375 in. (35 mm)	5/16 - 18 UNC (M8)	0.06 lbs		
75	TS-STB-05-*-XXX		TS-STB-05-*-XXX 2.50 in. 1.875 in (63 mm) (48 mm				5/16 - 18 UNC (M8)	0.06 lbs
*Materials:	Z T X C	Zinc Plated Steel (S AISI 304 Grade Sta AISI 316 Grade Sta Unplated Carbon S	ainless Steel (A2 ainless Steel (A4	-1.4301/1.430 -1.4401/1.457				
XXX Threads:	56H 38H -MET	5/16 - 18 UNC Three 3/8 - 16 UNC Three Metric Threed as st	d (Special)	ecial)				

Rail and Strut Mounting Options



Group	Or	der Number	L	W	T	Н	Thread	Weight Ea
	ST	-RCN-99-*-RN0	0.950 in. (24 mm)	0.405 in (10.2 mm)	0,210 in. (5.3 mm)	0.570 in. (15 mm)	1/4 - 20 UNC (M6)	0.02 lbs
T2-T5	TS	-RCN-99-*-RN0	1.000 in. (25.4 mm)	0.420 in (10.7 mm)	0.210 in. (5.3 mm)	0.570 in. (15 mm)	5/16 - 18 UNC (M8)	0.02 lbs
Materials:	YZTXC	Yellow Zinc Plate SIZ Plated SIZ AG Grade AISI 316 Grade Unplated Carbo	el (Group T1 Stainless St Stainless St	as Standard teel (A2 - 1.4 teel (A4 - 1.4	Material, S 301/1.4305 401/1.4571	pecial T2-7	75)	

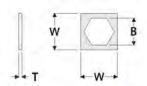




	Mounting Rail [RAL-0]										
Group	Or	der Number	W1	W2	T	- н	Length	Weight			
0-7A	ST-RA0-99-*-XXX		1.125 in. (28 mm)	0.438 in (11 mm)	14 gauge	0.438 in (11 mm)	6FT 3FT	3.94 1.97			
*Materials:	CTX	Unplated Carbo AISI 304 Grade AISI 316 Grade Zinc Plated Ste	Stainless St Stainless St	eel (A2 - 1.4	301/1 4305)						

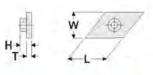
XXX Length: 6FT 72 in. (1829 mm) Length (Standard Length)
3FT 36 in. (914 mm) Length (Special Length)
-Custom sizes available on request-





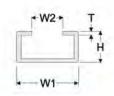
	Twin Safety Plate [SAF]											
Grp.	Order	Numbe	r W	В	T	Weight Ea						
T1	N/A			4	*							
T2-T5	TS-SA	F-02-*	0.719 in. (18mm)	0.510 in. (13 mm)	0.050 in. (1.3 mm)	0.04 lbs						
*Mate	rials:	Y		Steel (Standard Mai	terial)							
		Z	Zinc Plated Steel (
		Т		ainless Steel (A2 - 1.								
		X		ainless Steel (A4 - 1.								
		C	Unplated Carbon S	teel (Special Materia	al)							





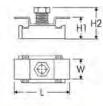
Grp.	Order N	umber	L	W	T	Н	Thread	Weight Ea
T1	ST-RCN-	99-*-RN1	1.075 in. (27.3 mm)	0.783 in. (20 mm)		0.405 in. (10 mm)	1/4-20 UNC (M6)	0.04 lbs
T2-T5	TS-RCN-	99-*-RN4	1.075 in. (27.3 mm)	0.783 in. (20 mm)		0.405 in. (10 mm)	5/16-18 UNC (M8)	0.04 lbs
*Mate	rials:	z	Zinc Plated	Steel (Gr	oup T1 Star	dard Mate	rial, Special T2	2-T5)
		T	AISI 304 G					
		X	AISI 316 G	rade Stain	less Steel (A4 - 1.440	1/1.4571)	
		C	Unplated C	arbon Stee	el (Special I	Material)		





Group	Ord	er Number	W1	W2	T	H.	Length	Weight			
0-7A	ST-	RA1-99-*-XXX	1.438 in. (36.5 mm)	0.625 in (16 mm)	14 gauge	0.438 in (11 mm)	6FT 3FT	4.65 2.33			
*Materials:	Z Zinc Plated Steel (Standard Material) T AISI 304 Grade Stainless Steel (A2 - 1.4301/1.4305)										
	X										
	C Unplated Carbon Steel (Special Order)										
XXX Length:											
	3FT	tom sizes availab		pecial Leng	(th)						





			Strut Cl	ip Nut	[UCN]		
Group	(Order Number		W	H1	H2	Thread
T1		ST-UCN-99-*	1.660 in. (42 mm)	0.635 in (16 mm)	0.525 in. (13 mm)	0.813 in. (20.5 mm)	1/4 - 20 UNC
T2-T3		TS-UCN-23-2	1.500 in. (38 mm)	2.090 in (53 mm)	0.730 in. (18.5 mm)	1,080 in. (27.5 mm)	5/18 - 18 UNC
T4-T5		TS-UCN-45-2	1.500 in. (38 mm)	3.150 in (80 mm)	0.730 in. (18.5 mm)	1.080 in. (27.5 mm)	5/18 - 18 UNC
*Materials:	Z	Zinc Plated Sto AISI 304 Grad AISI 316 Grad	e Stainless	Steel (A2	-1.4301/1.4		
	c					,	

Complete Assembly Ordering Code

TW T 41050-PPSB - MET

	Clamp Configuration 1
TW	Complete Clamp for Weld Mounting
ROT	Complete Clamp for Mounting to RAL-0
R1T/R4T	Complete Clamp for Mounting to RAL-1
UT	Complete Clamp for Mounting to Strut Channel
TWSK	Complete Stacking Kit

	Hardware Material (2)
Omit	Electro-Zinc Dichromate Plating
	AISI 304 Stainless Steel (A2 - 1.4301/1.4305)
X	AISI 316/316Ti Stainless Steel (A4 - 1.4401/1.4571)
T X C	Untreated Carbon Steel

	Clamp Pair Material	4
PP	Polypropylene	
SP	Polypropylene Santoprene	

	Clamp Pair Design	(5)
Omit	Ribbed Inside	
SB	Smooth Bore Inside (groups H3-H6 only)	

	Threads	chart 6
Omit	UNC Thread (Standard)	
MET	Metric Thread	

	Clan	np Grou	ıp and	Size	3
Behringer Group	Pipe Size	Tube Size	Metric OD (mm)	Imperial OD (Inch)	Order No.
400		1/4	6.4	0.250	1025
T1		3/8	9.5	0.375	1038
7 40		12 mm	12.0	0.472	10472
		1/4	6.5	0.250	2025
		3/8	9.5	0.375	2038
	1/8		10.0	0.405	20405
T2		1/2	12.7	0.500	2050
	1/4		13.7	0.540	20540
		5/8	16.0	0.625	2062
	3/8		17.0	0.675	20675
		3/4	19.0	0.750	3075
Т3	1/2		21.3	0.840	30840
13		7/8	22.2	0.875	3087
		1	25.4	1.000	3100
= [7/8	22.2	0.875	4087
T4		1	25.4	1.000	4100
14	3/4		26.7	1.050	41050
		1 1/8	28.6	1.125	41125
		3/4	19.0	0.750	5075
		1 1/4	32.0	1.250	5125
T5	1		33.4	1.315	51315
		1 1/2	38.1	1.500	5150
	1 1/4		42.2	1.660	51660

Ordering Examples



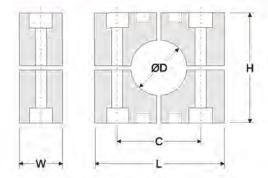








Behringer's patented Heavy-4 Series pipe clamps accommodate pipe sizes from 8 through 30 inch. They feature a unique four-segmented plastic design which retains dimensional accuracy, absorbs vibration, resists stress and impact, and accomplishes a strong plastic-to-steel interface, strongly securing the largest pipes with ease. Substantial metal plates and bolts complement this heavyweight of the pipe clamp world.





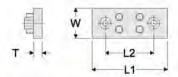
		Clamp	Pair Material Codes	(*)	
P	[PP] Polypropylene Black Color	S	[SP] Santoprene Beige Color	A	[AL] Aluminum Aluminum Color

***Please Note: For aluminum material, the clamp desgn will incorporate 2 halves, rather than a 4-segment design.

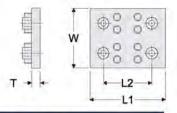
For Santoprene material, minimum quantities may apply.

		C	iamp P	air Dim	iensioi	nai Info	rmation		
Group	Size	Metric ØD (mm)	Imperial ØD (Inch)	L	С	н	w	Weight	Clamp Halves (See material code for *)
4.5.1	8 Pipe	219.0	8.625	18.250 in.	15.688 in.	16.000 in.	5.625 in.		H4-CLH-11-*-08P
H11	10 Pipe	273.0	10.750	(464 mm)	(398 mm)	(406 mm)	(143 mm)	24 lbs.	H4-CLH-11-*-10P
	12 Pipe	324.0	12.750	(404 11111)	(390 11111)	(400 11111)	(145 11111)		H4-CLH-11-*-12P
H12	14 Pipe	356.0	14.000	23.500 in.	The second second second	20.00 in.	5.625 in.	32 lbs.	H4-CLH-12-*-14P
11.04	16 Pipe	406.0	16.000	(597 mm)	(530 mm)	(508 mm)	(143 mm)	52 lb3.	H4-CLH-12-*-16P
H13	18 Pipe	457.0	18.000	24.750 in. (629 mm)	22.250 in. (565 mm)	22.000 in. (559 mm)	5.625 in. (143 mm)	22 lbs.	H4-CLH-13-*-18P
(in)	20 Pipe	508.0	20.000		26.250 in. (667 mm)	22.00 in. (559 mm)	5.625 in. (143 mm)	26 lbs.	H4-CLH-14-*-20P
H14	24 Pipe	610.0	24.000		26.250 in. (667 mm)	27.50 in. (699 mm)	5.625 in. (143 mm)	26 lbs.	H4-CLH-14-*-24P
H15	30 Pipe	762.0	30.000		32.250 in. (819 mm)	32.000 in. (813 mm)	5.625 in. (143 mm)	30 lbs.	H4-CLH-15-*-30P

Securing Plate Selection and Dimensions



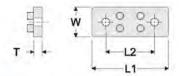
Grp.	Order N	lumber	L1	1.2	W	T	Thread	Weight Ea
H11	H4-SW	D 11 .	20.000 in.	15.688 in.	5.875 in.	1.000 in.	1 1/4 - 7 UNC	34 lbs
nu	114-244		(508 mm)	(398 mm)	(149 mm)	(25.4 mm)	1 1/4 - 7 UNC	34 105
H12	H4-SWP-12-*		25.500 ln.	20.875 ln.	5.875 in.	1.000 in.	1 1/4 - 7 UNC	45 16-
112	114-0W	P-12-	(648 mm)	(530 mm)	(149 mm)	(25,4 mm)	1 1/4 - / UNC	43 lbs
IIIA	H4-SW	D 49 *	27.000 in	22,250 in.	5.875 in.	1.000 in.	4.4/4 7111/0	46 lbs
H13	114-5W	P-13-	(686 mm)	(565 mm)	(149 mm)	(25.4 mm)	1 1/4 - 7 UNC	46 IDS
	H4-SW	n 44+	30.500 In	26.250 in.	5,875 in.	1.000 In.	1 1/4 - 7 UNC	co it-
H14	114-5W	P-14-	(775 mm)	(667 mm)	(149 mm)	(25.4 mm)	1 1/4 - 7 UNG	52 lbs
LIAE	H4-SW	0 45 *	36.500 in.	32.250 in.	5.875 in.	1.000 in.	1 1/4 - 7 UNC	62 lbs
ніэ	114-244	F-13-	(927 mm)	(819 mm)	(149 mm)	(25.4 mm)	1 1/4 - / UNC	62 IDS
Mate	erials:	C	Unplated 0	Carbon Ster	el (Standar	d Material)		
		T				(A2 - 1.430	1/1.4305)	
		X	AISI 316 G	Grade Stain	less Steel	(A4 - 1.4401	1/1.4571)	
		Z	Zinc Plate	d Steel (Sp	ecial Orde)		



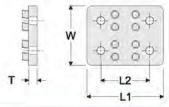
Grp.	Order	Number	11	L2	W	T	Thread	Weight Ea
H11	H4-DV	VP-11-*		15.688 in. (398 mm)		1.000 in. (25.4 mm)	1 1/4 - 7 UNC	71 lbs
H12	H4-DV	VP-12-*		20.875 in. (530 mm)		1.000 in. (25.4 mm)	1 1/4 - 7 UNG	88 lbs
H13	H4-DV	VP-13-*		22.250 in. (565 mm)		1.000 in. (25.4 mm)	1 1/4 - 7 UNC	93 lbs
H14	H4-DV	VP-14-*		26.250 in. (667 mm)		1.000 in. (25.4 mm)	1 1/4 - 7 UNC	106 lbs
H15	H4-DV	VP-15-*		32.250 in. (819 mm)		1.000 in. (25.4 mm)	1 1/4 - 7 UNC	127 lbs
Mate	erials:	C	Unplated (Carbon Ste	el (Standar	d Material)		
		T	AISI 304 G	rade Stain	less Steel	(A2 - 1.430°	1/1.4305)	
		x	AISI 316 G	Grade Stain	less Steel	(A4 - 1.440°	1/1.4571)	
		Z	Zinc Plate	d Steel (Sp	ecial Order)		



_			Hexagon Head	ALCOHOL: NO. 1	
Grp.	Order N	C.C.C. 2000	L	UNC Thread	Weight Ea
H11	H4-HEX	11-	17.500 in. (445 mm)	1 1/4 - 7 UNC	7.25 lbs.
H12	H4-HEX	12.	21.500 in. (546 mm)	1 1/4 - 7 UNC	8.75 lbs.
H13	H4-HEX-	13-*	24.000 in. (610 mm)	1 1/4 - 7 UNC	9.85 lbs.
H14	H4-HEX-	14*	27.500 in. (699 mm)	1 1/4 - 7 UNC	10.65 lbs.
H15	H4-HEX-	15-*	33.500 in. (851 mm)	1 1/4 - 7 UNC	11.85 lbs.
*Mate	rials:	C	Unplated Carbon Steel (S	Standard Material)	
		T	AISI 304 Grade Stainless	Steel (A2 - 1.4301/1.4305)	
		X	AISI 316 Grade Stainless	Steel (A4 - 1.4401/1.4571)	
		Z	Zinc Plated Steel (Specia	al Order)	



Grp.	Order Numbe	r L1	L2	W	Т	Weight Ea
H11	H4-SCP-11-*	18.250 in. (464 mm)	15.688 in. (398 mm)	5.875 in. (149 mm)	1.000 in. (25.4 mm)	28 lbs
H12	H4-SCP-12-*	23.500 in. (597 mm)	20.875 ln. (530 mm)	5,875 ln. (149 mm)	1.000 in. (25.4 mm)	37 lbs
H13	H4-SCP-13-*	25.000 ln. (635 mm)	22.250 in. (565 mm)	5,875 in. (149 mm)	1.000 in. (25.4 mm)	40 lbs
H14	H4-SCP-14-*	29.000 in. (737 mm)	26.250 in. (667 mm)	5,875 in. (149 mm)	1.000 in. (25.4 mm)	45 lbs
H15	H4-SCP-15-*	35.000 in. (889 mm)	32.250 in. (819 mm)	5,875 in. (149 mm)	1.000 in. (25.4 mm)	55 lbs
*Mate	erials: C T X Z	AISI 304 Grad AISI 316 Grad	oon Steel (Stan le Stainless St le Stainless St teel (Special O	eel (A2 - 1.430 eel (A4 - 1.440		



Grp.	Order Number	LI	L2	W	T	Weight Ea.
H11	H4-DCP-11-*	18.250 in. (464 mm)	15.688 in. (398 mm)	11.750 in. (298 mm)	1.000 in. (25.4 mm)	60 lbs
H12	H4-DCP-12-*	23.500 in. (597 mm)	20.875 in. (530 mm)	11.750 in. (298 mm)	1.000 in. (25.4 mm)	77 lbs
H13	H4-DCP-13-*	25,000 in. (635 mm)	22.250 in. (565 mm)	11.750 in. (298 mm)	1.000 in. (25.4 mm)	82 lbs
H14	H4-DCP-14-*	29.000 in. (737 mm)	26.250 in. (667 mm)	11.750 in. (298 mm)	1.000 in. (25.4 mm)	96 lbs
H15	H4-DCP-15-*	35,000 in. (889 mm)	32.250 in. (819 mm)	11.750 in. (298 mm)	1.000 in. (25.4 mm)	115 lbs
Mate	rials: C	Unplated Cart	on Steel (Stan	dard Material)		
	T		le Stainless St			
	X		le Stainless St teel (Special O	The second second second second	1/1.4571)	

Complete Assembly Ordering Code

chart 1 chart 2

chart 3

chart 4

SH T 11275-PP-MET

Clamp Configuration



SH Single Heavy Complete Clamp for Weld Mounting
DH Double Heavy Complete Clamp for Weld Mounting

Hardware Material



Omit	Untreated Carbon Steel	
T	AISI 304 Stainless Steel (A2 - 1.4301/1.4305)	

X AISI 316/316Ti Stainless Steel (A4 - 1.4401/1.4571)

Z Electro-Zinc Dichromate Plating

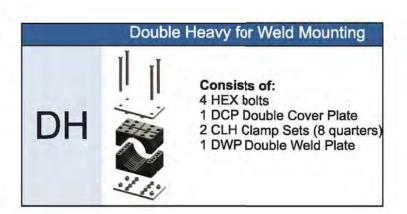
	Clamp Pair Material
PP	Polypropylene
SP	Santoprene
AL	Aluminum *For Aluminum, clamps are supplied in 2 halves rather than
	4 quadrants. Some other dimensions will vary as well.

Threads it UNC Thread (Standard) T Metric Thread

Group	Pipe Size	Metric ØD (mm)	Imperial ØD (Inch)	Order No.
	8	219.0	8.625	11862
H11	10	273.0	10.750	11075
	12	324.0	12.750	11275
H12	14	356.0	14.000	12140
012	16	406.0	16.000	12160
H13	18	457.0	18.000	13180
H14	20	508.0	20.000	14200
114	24	610.0	24.000	14240
H15	30	762.0	30.000	15300

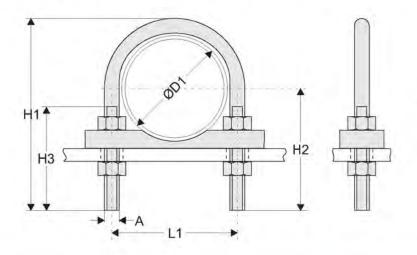
Ordering Examples

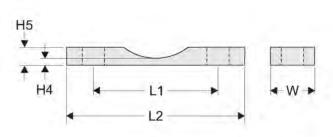




Saddle Series Pipe Clamps

Long Saddle U-Bolt Clamp





Saddle Material = NN (HDPE) = HT (High Temp)

	U-Bolt											
Nominal Pipe Size	ØD1 (pipe OD)	L1	H1	H2	Нз	A (thread)	Wt. (lbs)					
1/2	0.840	1.188	3.500	2.750	2.375	1/4-20 UNC	0.11					
3/4	1.050	1.375	3.563	2.750	2.375	1/4-20 UNC	0.12					
1	1.315	1.625	3.688	2.750	2.375	1/4-20 UNC	0.12					
1 1/4	1.660	2.063	4.125	2.875	2.375	3/8-16 UNC	0.28					
1 1/2	1.900	2.375	4.378	3.000	2.500	3/8-16 UNC	0.30					
2	2.375	2.813	4.875	3.250	2.500	3/8-16 UNC	0.33					
2 1/2	2.875	3.438	5.75	3.750	3.000	1/2-13 UNC	0.73					
3	3.500	4.063	6.313	4.000	3.000	1/2-13 UNC	0.78					
4	4.500	5.063	7,313	4.500	3.000	1/2-13 UNC	0.90					
5	5.563	6.125	8.313	5.000	3.000	1/2-13 UNC	1.00					
6	6.625	7.375	10.125	6.125	3.750	5/8-11 UNC	2.00					
8	8.625	9.375	12.125	7.125	3.750	5/8-11 UNC	2.30					
10	10.750	11.625	14.563	8.375	4.000	3/4-10 UNC	4.90					
12	12.750	13.750	16.938	9.625	4.250	7/8-9 UNC	7.70					
14	14,000	15.000	18.188	10.250	4.250	7/8-9 UNC	8.30					
16	16,000	17.000	20,188	11.250	4.250	7/8-9 UNC	9.20					
18	18.000	19.125	22.688	12,625	4.750	1-8 UNC	13.50					
20	20.000	21.125	24.688	13.625	4.750	1-8 UNC	14.60					
22	22.000	23.125	26.688	14.625	4.750	1-8 UNC	15.20					
24	24.000	25.125	28.688	15.625	4.750	1-8 UNC	16.90					
30	30.000	31.125	34.625	18.625	4.750	1-8 UNC	19.10					

	Long Saddle										
Li	L2	w	H4	Н5	Wt.						
1.188	2.000	1.250	0.250	0.500	0.04						
1.375	3.000	1.250	0.250	0.500	0.07						
1.625	3.188	1.250	0.250	0.500	0.07						
2.063	3.500	1.250	0.250	0.500	0.08						
2.375	3.750	1.500	0.313	0.625	0.10						
2.813	4.375	1.500	0.313	0.625	0.12						
3.438	5.375	1.500	0.313	0.625	0.15						
4.063	5.750	1.500	0.375	0.750	0.19						
5.063	7.500	1.500	0.375	0.750	0.25						
6.125	8.750	1.500	0.375	0.750	0.29						
7.375	9.875	2.000	0.500	1.000	0.59						
9.375	12.500	2.000	0.500	1.000	0.74						
11.625	14.625	2.000	0.500	1.000	0.87						
13.75	16.625	2.500	0.594	1.250	1.54						
15.000	19.000	2.500	0.594	1.250	1.76						
17.000	21.250	2,500	0.594	1.250	1.97						
19.125	23.240	2.500	0.594	1.250	2.16						
21.125	25.250	2.500	0.594	1.250	2.35						
23.125	27.625	2.750	0.750	1.500	3.38						
25.125	29.625	2.750	0.750	1.500	3.62						
31.125	36.000	2.750	0.750	1.500	4.40						

Assembly Ordering

U-Bolt Ordering

Saddle Ordering

LSUBZ-12750-NN

UBZ-12750

LS-12750-NN

Saddle Material NN = HDPE HT = Hight Temp

Pipe Diameter

Enter ØD1 value from above, excluding decimal

Material of U-Bolt

- Z Zinc Plated
- T 304 Stainless Steel
- X 316 Stainless Steel

Pipe Diameter

Enter ØD1 value from above, excluding decimal

Material of U-Bolt

- Z Zinc Plated
- T 304 Stainless Steel
- X 316 Stainless Steel

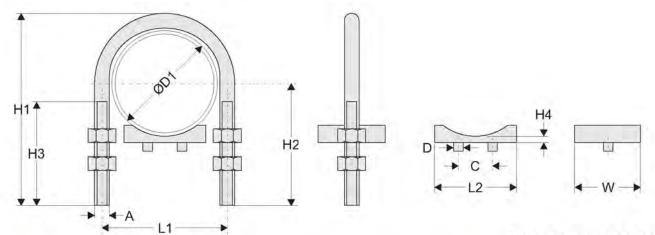
Saddle Material NN = HDPE HT = Hight Temp

Pipe Diameter

Enter ØD1 value from above, excluding decimal

Saddle Series Pipe Clamps

Short Saddle U-Bolt Clamp



Saddle Material =	PP (Polypropylene)

			U-B	olt			
Nominal Pipe Size	ØD1 (pipe OD)	Li	н	H2	НЗ	A (thread)	Wt. (lbs)
1 1/4	1.660	2.063	4.125	2.875	2.375	3/8-16 UNC	0.28
1 1/2	1.900	2.375	4.378	3.000	2.500	3/8-16 UNC	0.30
2	2.375	2.813	4.875	3.250	2.500	3/8-16 UNC	0.33
3	3.500	4.063	6,313	4.000	3.000	1/2-13 UNC	0.78
4	4.500	5.063	7.313	4.500	3.000	1/2-13 UNC	0.90
6	6.625	7.375	10.125	6.125	3.750	5/8-11 UNC	2.00
8	8.625	9.375	12.125	7.125	3.750	5/8-11 UNC	2.30
10	10.750	11.625	14.563	8.375	4.000	3/4-10 UNC	4.90
12	12.750	13.750	16.938	9.625	4.250	7/8-9 UNC	7.70
14	14.000	15.000	18.188	10.250	4.250	7/8-9 UNC	8.30
16	16.000	17.000	20.188	11.250	4.250	7/8-9 UNC	9.20
18	18.000	19.125	22.688	12.625	4.750	1-8 UNC	13.50
20	20.000	21.125	24.688	13.625	4.750	1-8 UNC	14.60
24	24.000	25.125	28.688	15.625	4.750	1-8 UNC	16.90
30	30.000	31.125	34.625	18.625	4.750	1-8 UNC	19.10

	Short Saddle										
L2	С	D	H4	w							
1.500	1.000	0.313	0.250	1.000							
1.500	1.000	0.313	0.250	1.000							
1.500	1.000	0.313	0.250	1.000							
3.000	1.563	0.563	0.313	2.000							
3.000	1.563	0.563	0.313	2.000							
5.500	3,500	1.000	0.375	3.000							
5.500	3.500	1.000	0.375	3.000							
5.500	3,500	1.000	0.375	3.000							
8.500	5.875	1.125	0.375	3.000							
8.500	5.875	1.125	0.375	3.000							
8,500	5.875	1.125	0.375	3.000							
8.500	5.875	1.125	0.375	3.000							
14.000	10.500	1.125	0.500	4.000							
14.000	10.500	1.125	0.500	4.000							
14,000	10,500	1.125	0.500	4.000							

Assembly Ordering

U-Bolt Ordering

Saddle Ordering

SSUBZ-12750-PP

UBZ-12750

SS-12750-PP

Pipe Diameter

Enter ØD1 value from above, excluding decimal

Material of U-Bolt

Z Zinc Plated

T 304 Stainless Steel

X 316 Stainless Steel

Pipe Diameter

Enter ØD1 value from above, excluding decimal

Material of U-Bolt

Z Zinc Plated

T 304 Stainless Steel

X 316 Stainless Steel

Saddle Material

PP Polypropylene

Pipe Diameter

Enter ØD1 value from above, excluding decimal

Cushion Clamps

Cushioned Clamping Systems

Behringer now offers a complete line of cushioned clamps. Cushioned clamps are typically used in pneumatic, refrigeration, HVAC, and some low pressure hydraulic lines. Behringer's cushioned clamps also eliminate metal to metal contact between the fluid lines and the support hardware. Standard material for the hardware is a clear trivalent zinc plated steel with options for both 304 and 316 grades stainless steel. Additional special options include aluminum and powder coating.

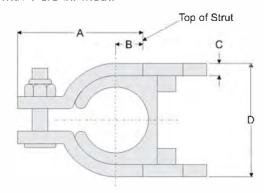
Specifications

Cushion:

Thermoplastic Elastomer -65°F to 275°F operating temperature

Hardware:

Fits industry standard strut channel with 1-5/8 in. width.



Cushion Ordering

Order Number Material

-

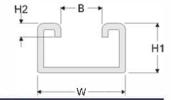
Hardware Material

- Z Electro-Zinc Dichromate Plating
 - AISI 304 Stainless Steel (A2 1.4301/1.4305)
- X AISI 316/316Ti Stainless Steel (A4 1.4401/1.4571)

To order, use the ordering code above. Fill in the order number from the light blue shaded boxes in the chart to the right. Then add the material designation from the Hardware Materials chart above.

Ex. For 1 in. pipe with zinc plated hardware the order number is CC1315-Z.

Channel Ordering



	Strut Channel Rail													
Height	Order Number	Length	H1	H2	W	В								
7/8"	ST-SCR-088-*-048	48.0 in.	0,875 in.	0.281 in.	1.625 in.	0.875 in.								
170	ST-SCR-088-*-120	120.0 in.	(22.2 mm)	(7 mm)	(41.4 mm)	(22.2 mm)								
1"	ST-SCR-100-*-048	48.0 in.	1,0 in.	0.281 in.	1.625 in.	0.875 in.								
	ST-SCR-100-*-120	120.0 in.	(25.5 mm)	(7 mm)	(41.4 mm)	(22.2 mm)								
•Materials:	С	Unplated M	lild Steel											
1	Т	AISI 304 G	rade Stainles	s (A2 - 1.43	01/1.4305)									
1	X AISI 316 Grade Stainless (A4 - 1.4401/1.4571)													
	z	Zinc Plated	Steel			Z Zinc Plated Steel								



	(Cushion (Clamp Si	ze Table		1
Size	Order Number	OD	А	В	С	D*
1/4 T	0250	0.250	1.110	0.220	0.075	0.620
3/8 T	0375	0.375	1.240	0.280	0.075	0.750
1/2 T	0500	0.500	1.360	0.340	0.075	0.870
1/4 P	0540	0.540	1.410	0.630	0.075	0.910
5/8 T	0625	0.625	1.500	0.410	0.075	1.000
3/8 P	0675	0.675	1.590	0.450	0.075	1.070
3/4 T	0750	0.750	1.780	0.530	0.075	1.330
1/2 P	0840	0.840	1.910	0.590	0.075	1.450
7/8 T	0875	0.875	1.910	0.580	0.075	1.450
1 T	1000	1.000	2.030	0.660	0.105	1.660
3/4 P	1050	1.050	2.160	0.720	0.105	1.790
1 1/8 T	1125	1.125	2.160	0.720	0.105	1.790
1 1/4 T	1250	1.250	2.300	0.780	0.105	1.920
1 P	1315	1.315	2.750	0.910	0.119	2.220
1 3/8 T	1375	1.375	2,750	0.910	0.119	2.220
1 1/2 T	1500	1.500	2.750	0.910	0.119	2.220
1 5/8 T	1625	1.625	3.030	1.030	0.119	2.470
1 1/4 P	1660	1.660	3.030	1.030	0.119	2.470
1 3/4 T	1750	1.750	3.030	1.030	0.119	2.470
1 7/8 T	1875	1.875	3.280	1.160	0.119	2.470
1 1/2 P	1900	1.900	3.280	1.160	0.119	2.470
2 T	2000	2.000	3.280	1.160	0.119	2.470
1 1/8 T	2125	2.125	3.530	1.280	0.119	2.970
2 1/4 T	2250	2.250	3.780	1.410	0.119	3.220
2 3/8 T	2375	2.375	3.780	1.410	0.119	3.220
2 P	2375	2.375	3.780	1.410	0.119	3.220
2 1/2 T	2500	2.500	4.030	1.530	0.119	3.470
2 5/8 T	2625	2.625	4.030	1.530	0.119	3.470
2 1/2 P	2875	2.875	4.270	1.660	0.119	3.720
3 T	3000	3.000	4.520	1.780	0.119	3.970
3 1/8 T	3125	3.125	4.520	1.780	0.119	3.970
3 P	3500	3.500	4.910	1.970	0.119	4.360
3 5/8 T	3625	3.625	5.030	2.030	0.119	4.470
3 1/2 P	4000	4.000	5.530	2,280	0.119	4.970
4 1/8 T	4125	4.125	5.660	2.340	0.119	5.090
4 P	4500	4.500	6.030	2.530	0.119	5.470
5 P	5563	5.563	7.030	3.030	0.119	6.470
6 P	6625	6.625	8.030	3.530	0.119	7.470

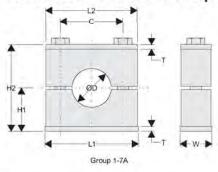
	Material Pro	perties Technica	ıl Data		
Clamp Pair Material Other materials have been used	PP	SP	AL	NN	
and are available upon request.	Polypropylene	Santoprene	Aluminum	HDPE	
Color	Black	Tan	Natural Aluminum	White	
Description	Thermoplastic Copolymer	Thermoplastic Elastomer	AISi12	High Density Polyethylene	
	Mecha	anical Properties			
Tensile Strength	3300 psi (at yield, 73 ° F) (ASTM D638)	1740 psi (at yield, 73 ° F) (ASTM D638)	19,000 psi (at yield, 73 ° F) (ASTM D638)	4500 psi (at yield, 73 ° F) (ASTM D638)	
Tensile Elongation	6.6% (at yield, 73 ° F) (ASTM D638)	31% (at yield, 73 ° F) (ASTM D638)	3.5% (at yield, 73 ° F) (ASTM D638)		
Hardness		50 Shore D (ASTM D2240)		65 R (Rockwell "R" Scale)	
	Thei	rmal Properties			
Temperature Range (Brief Exposure)	-22° F to + 215° F (-30° C to + 102° C)	-40° F to + 302° F (-40° C to + 150° C)	-65° F to + 750° F* ¹ (-54° C to + 399° C)		
Temperature Range (Continuous Exposure)	-22° F to + 194° F (-30° C to + 90° C)	-40° F to + 275° F (-40° C to + 135° C)	-65° F to + 500° F*1 (-54° C to + 260° C)	-58° F to + 175° F (-50° C to + 79° C)	
	Elect	trical Properties			
Dielectric Strength	475 V/mil (ASTM D149)	920 V/mil (ASTM D149)		510 V/mil (ASTM D149)	
Dielectric Constant	2.26 - 2.36 (ASTM D150)	2.300 (ASTM D150)		2.35 (ASTM D150)	
Volume Resistivity	> 2 x 10 ¹⁶ ohm-cm (ASTM D257)	>1 x 10 ¹⁴ ohm-cm (ASTM D257)	4.4 x 10 ⁶ ohm-cm (ASTM D257)	>6 x 10 ¹⁵ ohm-cm (ASTM D257)	
	Standard	s and Specification	IS		
	FDA Regulation Title 21 CFR 177.1520	UL Listed File# QMFZ2.E80017		FDA Regulation Title 21 CFR 177.1520	
	Meets Multiple Automotive Industry Specifications	Meets Multiple Automotive Industry Specifications		ASTM D 1248-84 Type III, Class A	
	EU Directive 2002/95/EC (RoHS) Compliant	EU Directive 2002/95/EC (RoHS) Compliant		Federal Specification LP-390 Type III, Class H, Grade I	

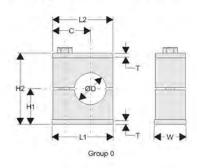
Notes:

The information contained in this document is provided as an aid in properly selecting products and/or options. It is intended to be used by technically experienced users for general reference only. The supplier assumes no responsibility or liability for the accuracy or completeness of this document, as well as results obtained by the use of this information. Due to the variety of possible operating conditions, it is highly recommended that the user make their own tests to determine the safety and suitability of all products and combinations thereof. The user is solely responsible for final determination of such conditions.

^{*1:} Tensile and fatigue strength rise as temperature decreases. The tensile elongation decreases as the temperature decreases.

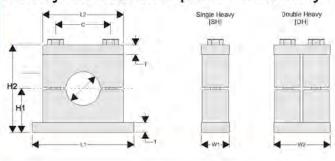
Standard Series Complete Assembly Dimensions





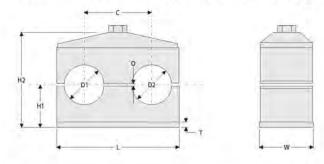
Clamp Assembly Dimensions											
Behringer Group	OD	L1	L2	С	H1	H2	T	w			
0	9	1.188 (30.2)	1.094 (27.8)	0.420 (10.7)	0.675 (17.1)	1.350 (34.3)	0.120 (3)	1.223 (31)			
1	page ters.	1.510 (38.4)	1.362 (34.6)	0.790 (20.1)	0.660 (16.8)	1.320 (33.5)	0.120 (3)	1.223 (31)			
2	de on pag diameters	1.740 (44.2)	1.592 (40.4)	1.020 (25.9)	0.760 (19.3)	1.520 (38.6)	0.120 (3)	1.223 (31)			
3	de c dian	2.020 (51.3)	1.872 (47.5)	1.300 (33)	0.810 (20.6)	1.620 (41.1)	0.120 (3)	1.223 (31)			
4	0	2.300 (58.4)	2.152 (54.7)	1.580 (40.1)	0.938 (23.8)	1.875 (47.6)	0.120 (3)	1.223 (31)			
5	e ordering co for available	2.770 (70.4)	2.790 (70.9)	2.050 (52.1)	1.313 (33.3)	2.625 (66.7)	0.120 (3)	1.223 (31)			
6	av.	3.320 (84.3)	3.340 (84.8)	2.600 (66)	1.438 (36.5)	2.875 (73)	0.120 (3)	1.223 (31)			
7	See	5.020 (127.5)	5.020 (127.5)	4.250 (108)	2.313 (58.7)	4.625 (117.5)	0.120 (3)	1.223 (31)			
7A	S	5.776 (146.7)	5.776 (146.7)	4.948 (125.7)	2.539 in(64.5)	5.078 (129)	0.120 (3)	1.223 (31)			

Heavy Series Complete Assembly Dimensions



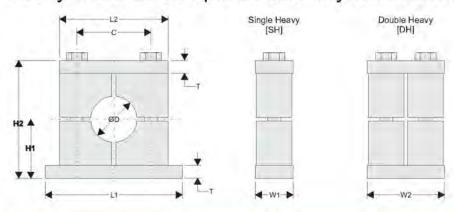
	Clamp Assembly Dimensions										
Behringer Group	OD	L1	L2	С	H1	H2	T	W1	W2		
НЗ	age ers.	2.875 (73)	2.250 in(57)	1.300 (33)	1.000 (25.4)	2.000 (50.8)	0.313 (8)	1.250 (32)	2.500 (63.5)		
H4	G 5	3.375 (86)	2.750 (70)	1.770 (45)	1.250 (32)	2.500 (63.5)	0.313 (8)	1.250 (32)	2.500 (63.5)		
H5	e on Jiam	4.000 (102)	3.344 (85)	2.360 (60)	1.500 (38)	3.000 (76.2)	0.313 (8)	1.250 (32)	2.500 (63.5)		
H6	code ble di	5.875 (149)	4.500 (114)	3.530 (90)	2.125 (54)	4.250 (108)	0.375 (10)	1.750 (44.5)	3.500 (88.9)		
H7		7.375 (187)	6.000 (152)	4.810 (122)	2.750 (70)	5.500 (140)	0.375 (10)	2.250 (57.2)	4.500 (114)		
Н8		10.000 (254)	8.063 (205)	6.620 (168)	3.813 (97)	7.625 (194)	0.500 (13)	3.000 (76.2)	7.000 (178)		
Н9	m 4	11.750 (298)	9.750 (248)	8.060 (205)	4.438 (113)	8.875 (225)	0.500 (13)	3.500 (88.9)	7.000 (178)		
H10	Sec 12	14.500 (368)	12.500 (318)	10.430 (265)	6.063 (154)	12.125 (308)	0.750 (19)	4.500 (114)	9.375 (238)		

Twin Series Complete Assembly Dimensions



	Clamp Assembly Dimensions										
Behringer Group	D1/D2	L	С	H1	H2	Ï	W	0			
T1	ng s	1.625 (41.3)	0.787 (20)	0.563 (14.3)	1.235 (31.4)	0.188 (5)	1.20 (30.5)	0.063 (1.6)			
T2	ering on 18 able ions	2.188 (56)	1.142 (29)	0.688 (17.5)	1.454 (37)	0.188 (5)	1.20 (30.5)	0.063 (1.6)			
Т3	ns ail	2.688 (68.3)	1.417 (36)	0.938 (23.8)	1.954 (49.6)	0.188 (5)	1.20 (30.5)	0.063 (1.6)			
T4	9000	3.445 (87.5)	1.772 (45)	1.063 (27)	2.204 (56)	0.188 (5)	1.20 (30.5)	0.063 (1.6)			
T5	S of p	4.315 (110)	2.205 (56)	1.313 (33.3)	2.704 (68.7)	0.188 (5)	1.20 (30.5)	0.063 (1.6)			

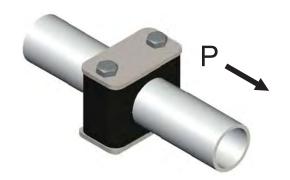
Heavy-4 Series Complete Assembly Dimensions



	Clamp Assembly Dimensions										
Behringer Group	OD	Li	L2	С	Н1	H2	Т	W1	W2		
H11	g 25 e	20.000 (508)	18.250 (464)	15.688 (398)	9.000 (229)	18.000 (457)	1.000 (25.4)	5.875 (149)	11.750 (298)		
H12		25.000 (635)	23.500 (597)	20.875 (530)	11.000 (279)	22.000 (559)	1.000 (25.4)	5.875 (149)	11.750 (298)		
H13	on page availabl	26.500 (673)	24.750 (629)	22.250 (565)	12.000 (305)	24.000 (610)	1.000 (25.4)	5.875 (149)	11.750 (298)		
H14	See ode o for a diar	30.000 (762)	28.750 (730)	26.250 (667)	12.000 (305)	24.000 (610)	1.000 (25.4)	5.875 (149)	11.750 (298)		
H15	000	36.000 (914)	34.750 (883)	32.250 (819)	17.000 (432)	34.000 (864)	1.000 (25.4)	5.875 (149)	11.750 (298)		

Tightening Torques and Maximum Loads

The charts below show the force in the direction of the pipe [P] required to move the pipe through the clamp. The values are for clamps with cover plates and hexagon head bolts using the recommended tightening torques below.



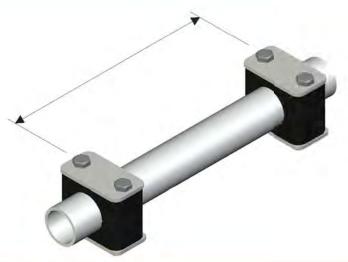
Standard Series								
		Polypropylene		Santoprene		Aluminum		
Behringer	Hexagon	Tightening	Maximum load	Tightening	Maximum load	Tightening	Maximum load	
Group	Head Bolt	Torque	(lbs.) in pipe	Torque	(lbs.) in pipe	Torque	(lbs.) in pipe	
		(Ft-lbs.)	direction (P)	(Ft-lbs.)	direction (P)	(Ft-lbs.)	direction (P)	
0		6	135	6	135	9	785	
1		6	245	6	225	9	945	
2		6	290	6	270	9	965	
3		6	315	6	290	9	1100	
4	1/4 - 20 UNC	6	335	6	315	9	1125	
5		6	425	6	380	9	1600	
6		6	450	6	405	9	2000	
7		6	495	6	425	9	N/A	
7A		6		6		9	N/A	

Heavy Series							
		Polyp	Polypropylene Santoprene		Aluminum		
Behringer	Hexagon	Tightening	Maximum load	Tightening	Maximum load	Tightening	Maximum load
Group	Head Bolt	Torque	(lbs.) in pipe	Torque	(lbs.) in pipe	Torque	(lbs.) in pipe
		(Ft-lbs.)	direction (P)	(Ft-lbs.)	direction (P)	(Ft-lbs.)	direction (P)
H3		9	360	9	335	22	2720
H4	3/8 - 16 UNC	9	650	9	600	22	3395
H5		11	740	11	675	25	3485
H6	7/16 - 14 UNC	22	1845	22	1755	40	6615
H7	5/8 - 11 UNC	33	2475	33	2025	90	7850
H8	3/4 - 10 UNC	60	3150	60	2700	160	15,885
H9	7/8 - 9 UNC	80	6300	80	5625	180	16,875
H10	1 1/8 - 7 UNC	130	9000	130	7650	370	19,000

Twin Series								
		Polyp	ropylene	Santoprene				
Behringer	Hexagon	Tightening	Maximum load	Tightening	Maximum load			
Group	Head Bolt	Torque	(lbs.) in pipe	Torque	(lbs.) in pipe			
		(Ft-lbs.)	direction (P)	(Ft-lbs.)	direction (P)			
T1	1/4 - 20 UNC	4	100	4	100			
T2	5/16 - 18 UNC	9	235	9	235			
T3		9	235	9	235			
T4		9	300	12	300			
T5		6	300	6	300			

Note: All tightening torques and static shearing forces apply to clamps with cover plates and hex bolts and are according to DIN3015-10. Pipe sliding starts when the load values "P" are reached.

Recommended Spacing

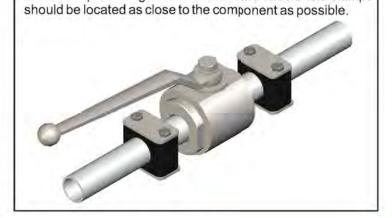


Pipe or Tube OD	Operating Pressure	Recommended Spacing	Operating Pressure	Recommended Spacing
0.250 in. to 0.675 in	up to 3000 psi	5 - 7 Ft.	over 3000 psi	3 - 5 Ft.
0.750 in. to 1.050 in.	up to 3000 psi	6 - 8 Ft.	over 3000 psi	4 - 6 Ft.
1.125 in. to 1.500 in.	up to 3000 psi	7 - 9 Ft.	over 3000 psi	5 - 7 Ft.
1.750 in. to 2.500 in.	up to 3000 psi	8 - 10 Ft.	over 3000 psi	6 - 8 Ft.
2.750 in. to 3.500 in.	up to 3000 psi	9 - 11 Ft.	over 3000 psi	7 - 9 Ft.
4.000 in. to 4.500 in.	up to 3000 psi	10 - 12 Ft.	over 3000 psi	8 - 10 Ft.
5.563 in. to 6.625 in.	up to 3000 psi	11 - 13 Ft.	over 3000 psi	8 - 11 Ft.
6.625 in. to 8.625 in.	up to 3000 psi	12 - 14 Ft.	over 3000 psi	9 - 11 Ft.
10.750 in. to 12.750 in.	up to 3000 psi	13 - 15 Ft.	over 3000 psi	8 - 10 Ft.
13.750 in. to 19.750 in.	up to 3000 psi	14 - 16 Ft.	over 3000 psi	10 - 12 Ft.

Recommended Mounting Practices

Behringer recommends that all pipe bends be supported by clamps placed as close to the bend as possible. The clamps should be directly after the connection (coupler, threaded connector, flange, or other).

Behringer recommends that all system components be supported by clamps directly before and after the component in order to protect against vibrations and shock. The clamps





For more information on Behringer Pipe Supports for industrial applications, visit our website:

behringersystems.com

Or call us at +1 (973) 948-0226

Your local stocking distributor:

Behringer Corporation 17 Ridge Road Branchville, NJ 07826 Tel: +1 (973) 948-0226

Fax: +1 (973) 948-2562

email: sales@behringersystems.com web: beheringersystems.com