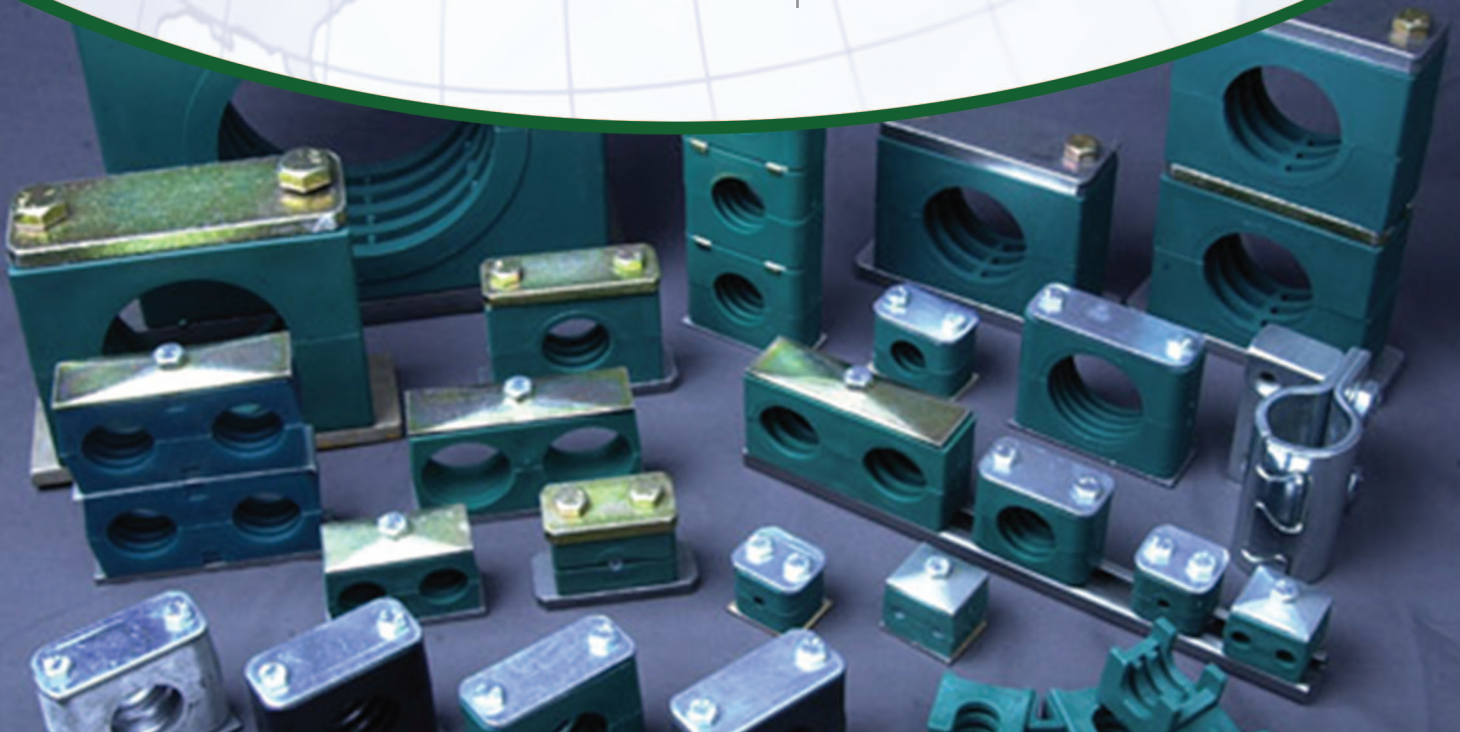


# PIPE CLAMPS

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Bar Hydraulic pipe clamps or hydraulic pipe hanger systems are designed to assure a simple, reliable shock dampening support for hydraulic tubes, hydraulic pipes, hydraulic hoses and conduit in hydraulic piping systems. Pipe clamps or pipe hangers are used in industrial hydraulic systems, mobile hydraulic systems, process piping and electrical construction. Hydraulic pipe clamps absorb shock, dampen vibration and reduce noise in hydraulic piping systems. We are pleased to offer the most comprehensive line of hydraulic pipe clamps from ¼" tube up to 30" pipe. Our hydraulic pipe clamps are also offered in metric tube sizes. We can supply our hydraulic pipe clamps in a wide range of materials: Polypropylene (PP) is used for standard pipe clamps and Santoprene (SA) or Aluminum (AL) for special applications. Weld plates, top plates and bolts can be supplied in both carbon steel and stainless steel.

## HOW IT WORKS

The Bar Hydraulics pipe clamp system has two primary methods for mounting: weld plates and mounting rails.

Clamps should be mounted to a rigid structure for optimum performance. Clamping tube, pipe or hose assemblies together without mounting them to a rigid structure, often called "floating clamps," does not provide adequate support.

Proper design of a clamping system requires that the clamps be positioned appropriately on the tube, pipe or hose assemblies. See the technical portion of this section for further information on material characteristics and material properties.

**Weld Plate Mounting:** The weld plate mounting system allows the user to attach a single clamp assembly to a structure of similar material (steel to steel, etc.) by welding the components together. Once the weld plate is attached to a structure, one clamp half can be placed onto the weld plate, followed by a tube, pipe or hose assembly. Next, the second half can be placed on the tube, pipe or hose assembly, followed by the cover plate (or insert). To complete the assembly, the Hex Head attachment bolts are inserted into the assembly and tightened to the torque shown in the Technical portion of this section.

**Mounting Rail Mounting:** Use of a mounting rail is another way to assemble the clamping system components onto a support structure. Using a mounting rail allows multiple clamps to be mounted side-by-side for restraining a group of tube, pipe or hose assemblies. The mounting rail also provides the ability to move the location of the clamps in one direction for easier alignment. The rail can be attached to a support structure by welding or bolting. Once the mounting rail is in place, rail nuts can be slid into the rail. The first clamp half, followed by the tube, pipe or hose assembly can then be installed over the corresponding rail nuts. After this, the second clamp half, cover plate (or insert) and hex head attachment bolts can be installed to complete the assembly.

**Stacking:** A primary feature of the Bar Hydraulics clamp system is its ability to accommodate stacking of a series of clamps to various heights, thus requiring a smaller footprint for mounting. To do this, simply use stacking bolts to mount the first clamp assembly, then install a stacking plate over the first clamp and stacking bolts. The second clamp assembly can then be placed over the first clamp assembly. Complete the mounting by assembling a cover plate and using the hex bolts to tighten the upper clamp assembly. Note: When stacking, the clamps must be from the same series and group.



# STANDARD SERIES PIPE & TUBE CLAMPS

Engineering, plant and maintenance personnel appreciate the simplicity, vibration dampening, shock and noise absorbing qualities of this system, which comply with OSHA, nuclear, environmental, ASTM, and Coast Guard standards.

Clamping halves are available in Polypropylene (PP) or Santoprene (SA). Both plastic materials are resistant to salt water and most chemicals and oil and offer a wide range of thermal properties. Aluminum clamp halves are also available from stock.

Standard Series clamps will accommodate pipes, tubes and hose ranging in size from ¼" OD to 3½" OD. Clamps for tube and metric sizes, other than those listed, are available upon request. A clamp assembly consists of a weld plate, two (2) identical clamp halves, a cover plate, and two hex head bolts.

Standard weld plates and cover plates are furnished in plain carbon steel or zinc plated finish. Stainless Steel hardware is available from stock (type 304 & 316 stainless).

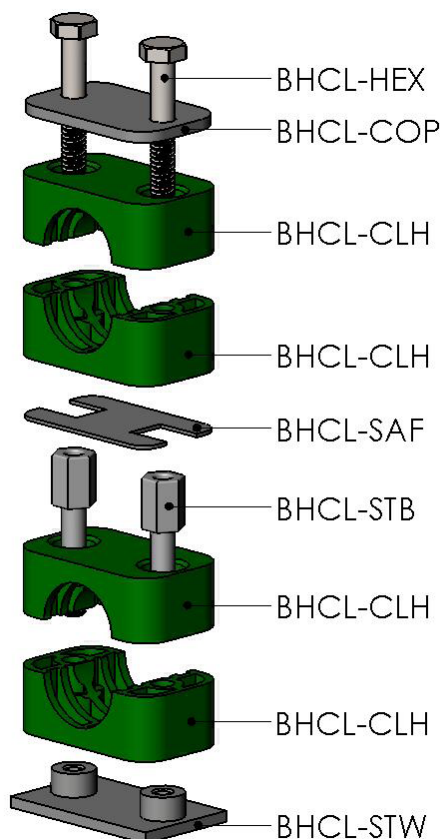
CLAMPS FOR STACKING require stacking bolts (STB) and safety plates (SAF).

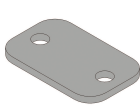
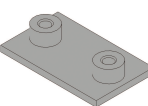
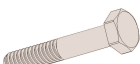
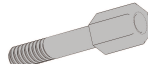

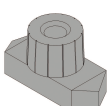
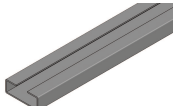
RAIL MOUNTING allows for faster installation and easier relocation of clamps.

CLAMP INSERTS			
GROUP	SIZE	CLAMP OD	ORDER NO.
1	¼ T	0.250	BHCL-1025-**
	¾ T	0.375	BHCL-1038-**
	¼ P	0.405	BHCL-10405-**
2	½ T	0.500	BHCL-2050-**
	¼ P	0.540	BHCL-20540-**
	¾ T	0.625	BHCL-2062-**
3	¾ P	0.675	BHCL-20675-**
	¾ T	0.750	BHCL-3075-**
	½ P	0.840	BHCL-30840-**
4	¾ T	0.875	BHCL-3087-**
	1 T	1.000	BHCL-3100-**
	¾ P	1.050	BHCL-41050-**
5	1½ T	1.125	BHCL-41125-**
	1¼ T	1.250	BHCL-5125-**
	1 P	1.315	BHCL-51315-**
6	1½ P	1.500	BHCL-5150-**
	1¼ P	1.660	BHCL-51660-**
	1¾ T	1.750	BHCL-6175-**
7	1½ P	1.900	BHCL-61900-**
	2 T	2.000	BHCL-6200-**
	2¼ T	2.250	BHCL-7225-**
7	2 P	2.375	BHCL-72375-**
	2½ P	2.875	BHCL-72875-**
	3 T	3.000	BHCL-7300-**
7	3½ T	3.500	BHCL-7350-**
	3 P	3.500	BHCL-73500-**

\*\* Specify clamp material: PP = Polypropylene, SP = Santoprene, AL= Aluminum

Clamp inserts ordered in pairs.

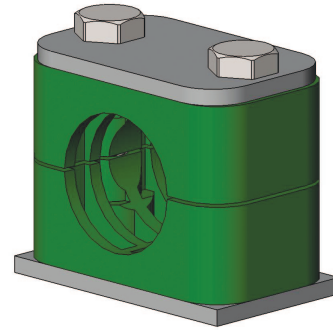
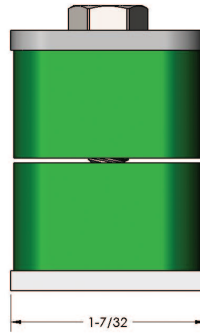
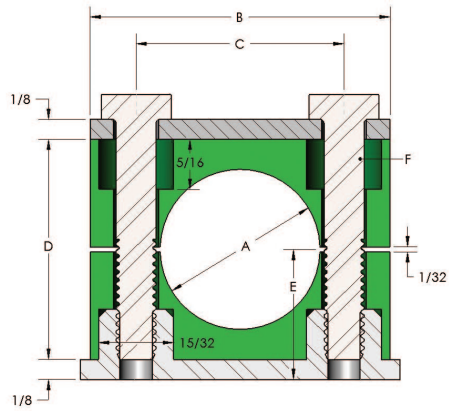


HARDWARE						
STANDARD			STACKING		RAIL MOUNT	
						
2 BOLT SINGLE COVER PLATE	2 BOLT SINGLE WELD PLATE	HEX BOLT	STACKING BOLT	SAFETY PLATE	RAIL NUT	MOUNTING RAIL
BHCL-COP-1 BHCL-COP-2 BHCL-COP-3 BHCL-COP-4 BHCL-COP-5 BHCL-COP-6 BHCL-COP-7	BHCL-STW-1 BHCL-STW-2 BHCL-STW-3 BHCL-STW-4 BHCL-STW-5 BHCL-STW-6 BHCL-STW-7	BHCL-HEX-1 BHCL-HEX-2 BHCL-HEX-3 BHCL-HEX-4 BHCL-HEX-5 BHCL-HEX-6 BHCL-HEX-7	BHCL-STB-1 BHCL-STB-2 BHCL-STB-3 BHCL-STB-4 BHCL-STB-5 BHCL-STB-6 BHCL-STB-7	BHCL-SAF-1 BHCL-SAF-2 BHCL-SAF-3 BHCL-SAF-4 BHCL-SAF-5 BHCL-SAF-6 BHCL-SAF-7	BHCL-RCN-0 <i>Use with BHCL-RAL-0</i>  BHCL-RCN-1 <i>Use with BHCL-RAL-1</i>	BHCL-RAL-0 <i>To be used with RCN-0</i>  BHCL-RAL-1 <i>To be used with RCN-1</i> <i>Standard length = 6 ft (2 meters)</i>

Two pieces req'd per assembly    Two pieces req'd per assembly

Two pieces req'd per assembly

# STANDARD SERIES



Group	Part #	Pipe/Tube Size	INCH DIMENSIONS					Bolt F	Weight (lbs/set)
			A	B	C	D	E		
1	BHCL-1025-**-COP-STW	¼ T	0.250	1⅜	0.790	1⅝	0.687	¼-20 1¼"	0.19
	BHCL-1038-**-COP-STW	⅜ T	0.375						
	BHCL-10405-**-COP-STW	½ P	0.405						
2	BHCL-2050-**-COP-STW	½ T	0.500	1⅝	1.020	1⅝	0.812	¼-20 1½"	0.23
	BHCL-20540-**-COP-STW	¼ P	0.540						
	BHCL-2062-**-COP-STW	⅝ T	0.625						
	BHCL-20675-**-COP-STW	¾ P	0.675						
3	BHCL-3075-**-COP-STW	¾ T	0.750	1⅝	1.300	1⅝	0.812	¼-20 1½"	0.26
	BHCL-30840-**-COP-STW	½ P	0.840						
	BHCL-3087-**-COP-STW	⅞ T	0.875						
	BHCL-3100-**-COP-STW	1 T	1.000						
4	BHCL-41050-**-COP-STW	¾ P	1.050	2¼	1.580	1⅝	0.937	¼-20 1¾"	0.30
	BHCL-41125-**-COP-STW	1⅞ T	1.125						
5	BHCL-5125-**-COP-STW	1¼ T	1.250	2¾	2.050	2⅝	1.312	¼-20 2½"	0.41
	BHCL-51315-**-COP-STW	1 P	1.315						
	BHCL-5150-**-COP-STW	1½ T	1.500						
	BHCL-51660-**-COP-STW	1¼ P	1.660						
6	BHCL-6175-**-COP-STW	1¼ T	1.750	3⅝	2.600	2⅝	1.437	¼-20 2¾"	0.49
	BHCL-61900-**-COP-STW	1½ P	1.900						
	BHCL-6200-**-COP-STW	2 T	2.000						
7	BHCL-7225-**-COP-STW	2¼ T	2.250	5	4.250	4⅝	1.312	¼-20 4½"	0.92
	BHCL-72375-**-COP-STW	2 P	2.375						
	BHCL-72875-**-COP-STW	2½ P	2.875						
	BHCL-7300-**-COP-STW	3 T	3.000						
	BHCL-7350-**-COP-STW	3½ T	3.500						
	BHCL-73500-**-COP-STW	3 P	3.500						

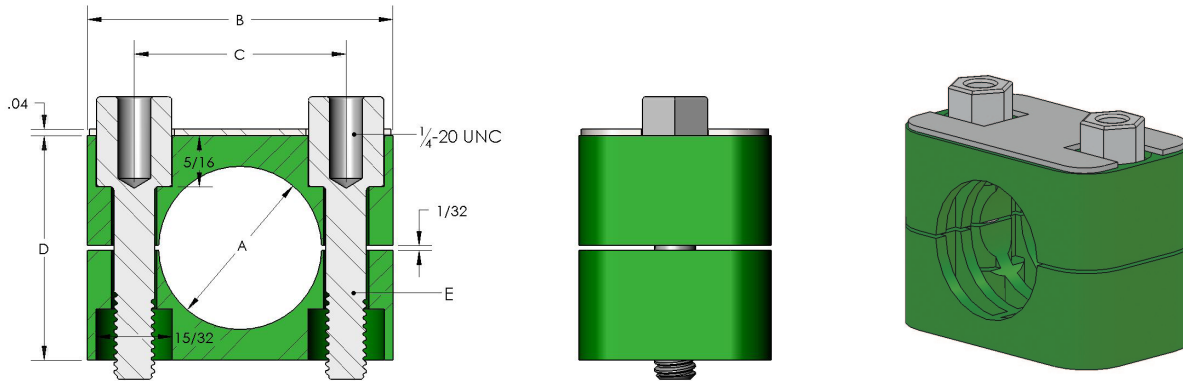
\*\* Specify clamp material: PP = Polypropylene, SP = Santoprene, AL = Aluminum

Above kits include two (2) clamp halves, one (1) cover plate, one (1) weld plate and two (2) hex bolts

For rail mounted option replace 'STW' in part number with 'RCN' to replace weld plate with two (2) rail nuts. EG: BHCL-3100-PP-COP-RCN



# STANDARD SERIES PIPE & TUBE STACKING CLAMPS



Group	Part #	Pipe/Tube Size (in)	INCH DIMENSIONS					Weight (lbs/set)
			A	B	C	D	E	
1	BHCL-1025-**-SAF-STB	¼ T	0.250	1⅜"	0.790	1⅝	1¾	0.19
	BHCL-1038-**-SAF-STB	⅜ T	0.375					
	BHCL-10405-**-SAF-STB	⅝ P	0.405					
2	BHCL-2050-**-SAF-STB	½ T	0.500	1⅝"	1.020	1⅝	1½	0.23
	BHCL-20540-**-SAF-STB	¼ P	0.540					
	BHCL-2062-**-SAF-STB	⅝ T	0.625					
	BHCL-20675-**-SAF-STB	⅝ P	0.675					
3	BHCL-3075-**-SAF-STB	¾ T	0.750	1⅝"	1.300	1⅝	1½	0.26
	BHCL-30840-**-SAF-STB	½ P	0.840					
	BHCL-3087-**-SAF-STB	¾ T	0.875					
	BHCL-3100-**-SAF-STB	1 T	1.000					
4	BHCL-41050-**-SAF-STB	¾ P	1.050	2¼"	1.580	1⅝	1¾	0.30
	BHCL-41125-**-SAF-STB	1⅝ T	1.125					
5	BHCL-5125-**-SAF-STB	1¼ T	1.250	2¾"	2.050	2⅝	2½	0.41
	BHCL-51315-**-SAF-STB	1 P	1.315					
	BHCL-5150-**-SAF-STB	1½ T	1.500					
	BHCL-51660-**-SAF-STB	1¼ P	1.660					
6	BHCL-6175-**-SAF-STB	1¾ T	1.750	3⅝"	2.600	2⅝	2¾	0.49
	BHCL-61900-**-SAF-STB	1½ P	1.900					
	BHCL-6200-**-SAF-STB	2 T	2.000					
7	BHCL-7225-**-SAF-STB	2¼ T	2.250	5"	4.250	4⅝	4½	0.92
	BHCL-72375-**-SAF-STB	2 P	2.375					
	BHCL-72875-**-SAF-STB	2½ P	2.875					
	BHCL-7300-**-SAF-STB	3 T	3.000					
	BHCL-7350-**-SAF-STB	3½ T	3.500					
	BHCL-73500-**-SAF-STB	3 P	3.500					

\*\* Specify clamp material: PP = Polypropylene, SA = Santoprene, AL = Aluminum

Above kits include two (2) clamp halves, two (2) stacking bolts and one (1) safety plate.

BAR FLARE  
SYSTEM

PIPE & TUBE

CLAMPS

VALVES

ADAPTERS

HOSES &  
COUPLINGS

O-RINGS

BLOCKS

TOOLING

# HEAVY SERIES PIPE & TUBE CLAMPS

HEAVY SERIES CLAMPS are available in a single heavy (SH) unit two (2) bolt design, or a double heavy (DH) unit four (4) bolt design.

Clamps are designed to absorb shock and vibration and reduce noise from installations, such as: steel mills, power plants, ship building, off-highway equipment, off-shore drilling platforms, and high pressure hydraulic machinery.

Heavy series clamps will accommodate pipes, tubes and hose ranging in size from 1/4" to 8-5/8" O.D. Metric sizes available upon request.


A basic clamp assembly consists of a weld plate, two (2) identical clamp halves, a cover plate and two (2) hex head bolts.

Weld and cover plates are made from low carbon steel material. **Stainless steel and plated hardware are available for all groups.**

Clamp halves are made of Polypropylene (PP - green or black color), Santoprene (SP - tan color), and Aluminum (AL - silver color).

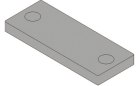
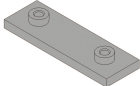
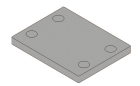
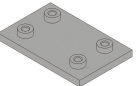

Heavy series clamps of the same group may be stacked vertically to desired number by using stacking bolts (STB) and safety plates (SAF).

**Plastic blanks for special bore diameters available in groups H3 thru H8.**

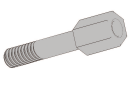
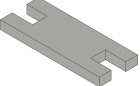
			
CLAMP INSERTS			
GROUP	SIZE	BORE (in)	ORDER NO.
H3	1/4 T	0.250	BHCL-H3025-**-
	3/8 T	0.375	BHCL-H3038-**-
	1/2 P	0.405	BHCL-H30405-**-
	1/2 T	0.500	BHCL-H3050-**-
	3/4 P	0.540	BHCL-H30540-**-
	3/4 T	0.625	BHCL-H3062-**-
H4	3/8 P	0.675	BHCL-H30675-**-
	3/4 T	0.750	BHCL-H4075-**-
	1/2 P	0.840	BHCL-H40840-**-
	3/4 T	0.875	BHCL-H4087-**-
	1 T	1.000	BHCL-H4100-**-
	3/4 P	1.050	BHCL-H41050-**-
H5	1 1/4 T	1.250	BHCL-H5125-**-
	1 P	1.315	BHCL-H51315-**-
	1 1/2 T	1.500	BHCL-H5150-**-
	1 1/4 P	1.660	BHCL-H51660-**-
H6	1 1/4 P	1.660	BHCL-H61660-**-
	1 1/4 T	1.750	BHCL-H6175-**-
	1 1/2 P	1.900	BHCL-H61900-**-
	2 T	2.000	BHCL-H6200-**-
	2 1/4 T	2.250	BHCL-H6225-**-
	2 P	2.375	BHCL-H62375-**-
H7	2 1/4 T	2.500	BHCL-H6250-**-
	2 3/4 T	2.750	BHCL-H6275-**-
	2 3/4 T	2.750	BHCL-H7275-**-
	2 1/2 P	2.875	BHCL-H72875-**-
	3 T	3.000	BHCL-H7300-**-
	3 P	3.500	BHCL-H73500-**-
H8	3 1/2 T	3.500	BHCL-H7350-**-
	4 T	4.000	BHCL-H8400-**-
	4 P	4.500	BHCL-H84500-**-
	4 1/2 T	4.500	BHCL-H8450-**-
H9	5 T	5.000	BHCL-H8500-**-
	5 T	5.000	BHCL-H9500-**-
	5 1/4 T	5.250	BHCL-H9525-**-
	5 P	5.563	BHCL-H95563-**-
	6 T	6.000	BHCL-H9600-**-
	6 P	6.625	BHCL-H96625-**-
H10	6 P	6.625	BHCL-H06625-**-
	8 T	8.000	BHCL-H0800-**-
	8 P	8.625	BHCL-H08625-**-

\*\* Specify clamp material: PP = Polypropylene, SP = Santoprene, AL = Aluminum


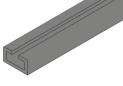
Clamp inserts ordered in pairs.

				
2 BOLT SINGLE HEAVY COVER PLATE	2 BOLT SINGLE WELD PLATE	4 BOLT DOUBLE HEAVY COVER PLATE	4 BOLT DOUBLE WELD PLATE	HEX BOLT
BHCL-SCP-H3 BHCL-SCP-H4 BHCL-SCP-H5 BHCL-SCP-H6 BHCL-SCP-H7 BHCL-SCP-H8 BHCL-SCP-H9 BHCL-SCP-H10	BHCL-SWP-H3 BHCL-SWP-H4 BHCL-SWP-H5 BHCL-SWP-H6 BHCL-SWP-H7 BHCL-SWP-H8 BHCL-SWP-H9 BHCL-SWP-H10	BHCL-DCP-H3 BHCL-DCP-H4 BHCL-DCP-H5 BHCL-DCP-H6 BHCL-DCP-H7 BHCL-DCP-H8 BHCL-DCP-H9 BHCL-DCP-H10	BHCL-DWP-H3 BHCL-DWP-H4 BHCL-DWP-H5 BHCL-DWP-H6 BHCL-DWP-H7 BHCL-DWP-H8 BHCL-DWP-H9 BHCL-DWP-H10	BHCL-HEX-H3 BHCL-HEX-H4 BHCL-HEX-H5 BHCL-HEX-H6 BHCL-HEX-H7 BHCL-HEX-H8 BHCL-HEX-H9 BHCL-HEX-H10

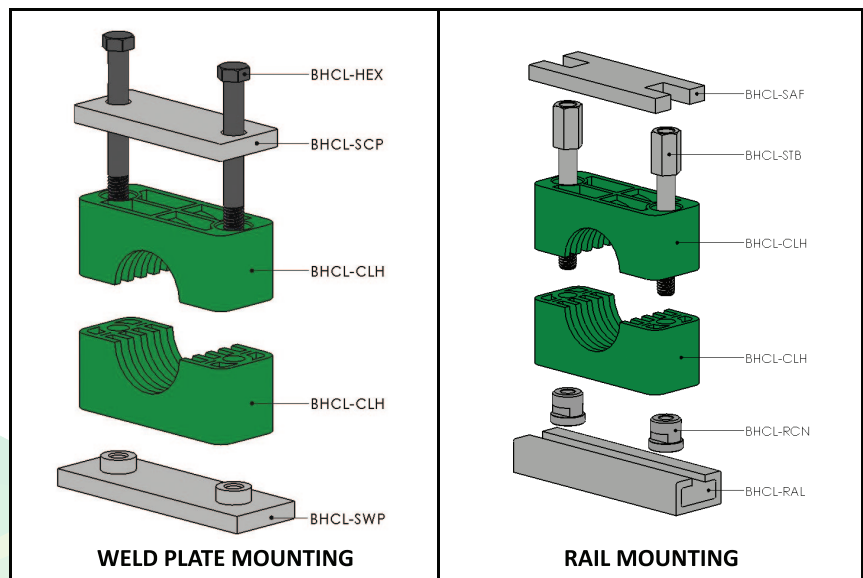
Two pieces req'd per assembly

	
STACKING BOLT	SAFETY PLATE
BHCL-STB-H3 BHCL-STB-H4 BHCL-STB-H5 BHCL-STB-H6 BHCL-STB-H7 BHCL-STB-H8 BHCL-STB-H9 BHCL-STB-H10	BHCL-SAF-H3 BHCL-SAF-H4 BHCL-SAF-H5 BHCL-SAF-H6 BHCL-SAF-H7 BHCL-SAF-H8 BHCL-SAF-H9 BHCL-SAF-H10

Two pieces req'd per assembly

	
RAIL NUT	MOUNTING RAIL
BHCL-RCN-7 Group H3 - H5  BHCL-RCN-8 Group H6	BHCL-RAL-4 For use with rail nuts Standard length = 2 Meters

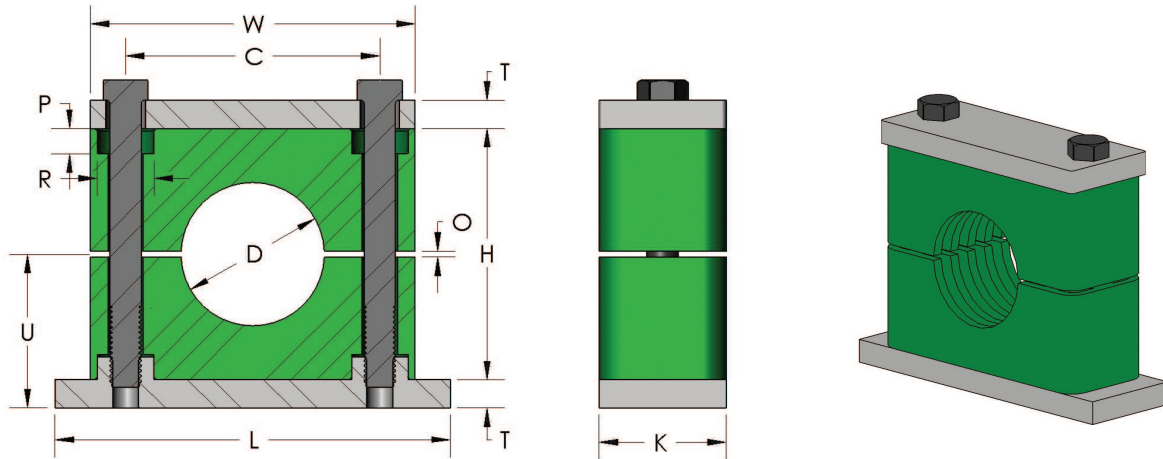
Two pieces req'd per assembly



WELD PLATE MOUNTING

RAIL MOUNTING

# HEAVY SERIES PIPE & TUBE CLAMPS



Group	Part #	Pipe/Tube Size (in)	INCH DIMENSIONS											BOLT LENGTH	Weight (lbs)
			D	W	H	C	T	K	L	O	P	R	U		
H3	BHCL-SH 3025-**	¼ T	0.250	2.250	1.375	1.30	0.313	1.250	2.875	0.063	0.500	0.698	1.000	3/8-16 1½ Lg	0.74
	BHCL-SH 3038-**	⅜ T	0.375												
	BHCL-SH 3040S-**	¼ P	0.405												
	BHCL-SH 3050-**	½ T	0.500												
	BHCL-SH 30540-**	¼ P	0.540												
	BHCL-SH 3062-**	⅜ T	0.625												
H4	BHCL-SH 30675-**	¾ P	0.675	2.750	1.875	1.77	0.313	1.250	3.375	0.063	0.500	0.698	1.250	3/8-16 2½ Lg	0.91
	BHCL-SH 4075-**	¾ T	0.750												
	BHCL-SH 40840-**	½ P	0.840												
	BHCL-SH 4087-**	¾ T	0.875												
	BHCL-SH 4100-**	1 T	1.000												
H5	BHCL-SH 41050-**	¾ P	1.050	3.375	2.375	2.36	0.313	1.250	4.000	0.063	0.500	0.698	1.500	3/8-16 2½ Lg	1.11
	BHCL-SH 5125-**	1¼ T	1.250												
	BHCL-SH 51315-**	1 P	1.315												
	BHCL-SH 5150-**	1½ T	1.500												
	BHCL-SH 51660-**	1¼ P	1.660												
H6	BHCL-SH 61660-**	1¼ P	1.660	4.500	3.500	3.53	0.375	1.750	5.875	0.125	0.625	0.778	2.125	7/16-14 4 Lg	2.61
	BHCL-SH 6175-**	1¼ T	1.750												
	BHCL-SH 61900-**	1½ P	1.900												
	BHCL-SH 6200-**	2 T	2.000												
	BHCL-SH 6225-**	2¼ T	2.250												
	BHCL-SH 62375-**	2 P	2.375												
	BHCL-SH 6250-**	2½ T	2.500												
	BHCL-SH 6275-**	2¾ T	2.750												
H7	BHCL-SH 7275-**	2¾ T	2.750	6.000	4.750	4.81	0.375	2.250	7.375	0.125	0.750	0.940	2.750	5/8-11 5½ Lg	4.99
	BHCL-SH 72875-**	2½ P	2.875												
	BHCL-SH 7300-**	3 T	3.000												
	BHCL-SH 73500-**	3 P	3.500												
	BHCL-SH 7350-**	3½ T	3.500												
H8	BHCL-SH 8400-**	4 T	4.000	8.000	6.625	6.62	0.500	3.000	10.000	0.187	1.000	1.188	3.812	3/4-10 7¼ Lg	11.88
	BHCL-SH 84500-**	4 P	4.500												
	BHCL-SH 8450-**	4½ T	4.500												
	BHCL-SH 8500-**	5 T	5.000												
	BHCL-SH 9500-**	5 T	5.000												
H9	BHCL-SH 9525-**	5¼ T	5.250	9.750	7.875	8.06	0.500	3.500	11.750	0.187	1.062	1.375	4.437	7/8-9 8½ Lg	16.60
	BHCL-SH 95563-**	5 P	5.563												
	BHCL-SH 9600-**	6 T	6.000												
	BHCL-SH 96625-**	6 P	6.625												
	BHCL-SH 06625-**	6 P	6.625												
H10	BHCL-SH 0800-**	8 T	8.000	12.500	10.625	10.43	0.750	4.500	14.500	0.187	1.250	1.375	6.062	1¼-7 11½ Lg	38.49
	BHCL-SH 08625-**	8 P	8.625												

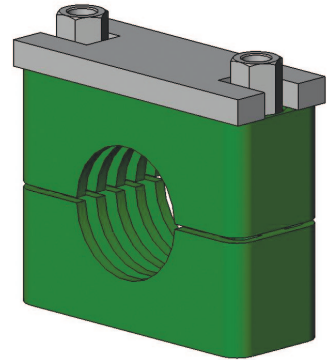
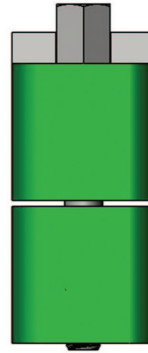
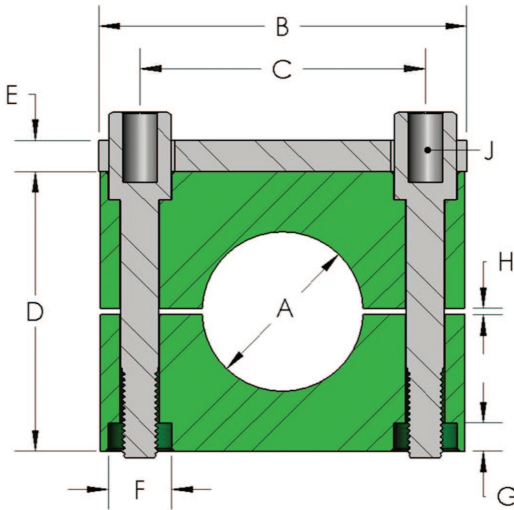
\*\* Specify clamp material: PP = Polypropylene, SP = Santoprene, AL = Aluminum

Above kits include two (2) clamp halves, one (1) cover plate, one (1) weld plate and two (2) hex bolts

For rail mounted option, add 'RCN' to the above part number to replace weld plate with two (2) rail nuts. EG: BHCL-H3100-PP-RCN (For groups H3-H6 only)



# HEAVY SERIES PIPE & TUBE STACKING CLAMPS



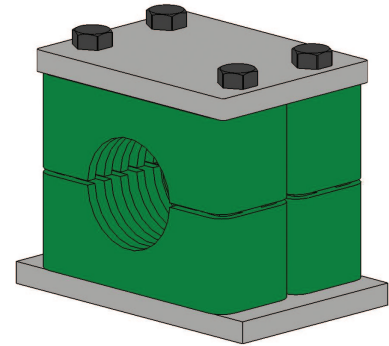
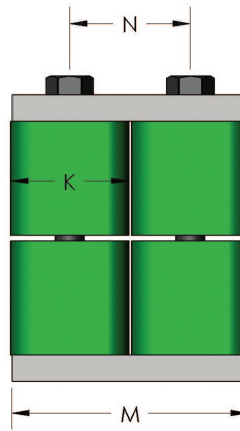
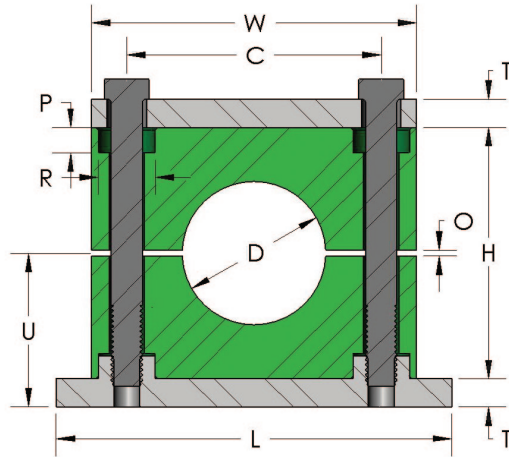
Group	Part #	Pipe/Tube Size (in)	INCH DIMENSIONS								J	Weight (lbs)
			A	B	C	D	E	F	G	H		
H3	BHCL-H3025-**-SAF-STB	¼ T	0.250	2.24	1.30	1.375	0.31	0.698	0.500	0.063	3/8 - 16 UNC	0.74
	BHCL-H3038-**-SAF-STB	⅜ T	0.375									
	BHCL-H30405-**-SAF-STB	½ P	0.405									
	BHCL-H3050-**-SAF-STB	½ T	0.500									
	BHCL-H30540-**-SAF-STB	¼ P	0.540									
	BHCL-H3062-**-SAF-STB	⅝ T	0.625									
H4	BHCL-H30675-**-SAF-STB	⅜ P	0.675	2.76	1.77	1.875	0.31	0.698	0.500	0.063	3/8- 16 UNC	0.91
	BHCL-H4075-**-SAF-STB	¾ T	0.750									
	BHCL-H40840-**-SAF-STB	½ P	0.840									
	BHCL-H4087-**-SAF-STB	⅞ T	0.875									
	BHCL-H4100-**-SAF-STB	1 T	1.000									
H5	BHCL-H41050-**-SAF-STB	¾ P	1.050	3.35	2.36	2.375	0.31	0.698	0.500	0.063	3/8- 16 UNC	1.11
	BHCL-H5125-**-SAF-STB	1¼ T	1.250									
	BHCL-H51315-**-SAF-STB	1 P	1.315									
	BHCL-H5150-**-SAF-STB	1½ T	1.500									
H6	BHCL-H51660-**-SAF-STB	1¼ P	1.660	4.57	3.53	3.500	0.39	0.778	0.625	0.125	7/16- 14 UNC	2.61
	BHCL-H61660-**-SAF-STB	1¼ P	1.660									
	BHCL-H6175-**-SAF-STB	1¾ T	1.750									
	BHCL-H61900-**-SAF-STB	1½ P	1.900									
	BHCL-H6200-**-SAF-STB	2 T	2.000									
	BHCL-H6225-**-SAF-STB	2¼ T	2.250									
	BHCL-H62375-**-SAF-STB	2 P	2.375									
	BHCL-H6250-**-SAF-STB	2½ T	2.500									
H7	BHCL-H6275-**-SAF-STB	2¾ T	2.750	6.02	4.81	4.750	0.39	0.940	0.750	0.125	5/8- 11 UNC	4.99
	BHCL-H7275-**-SAF-STB	2¾ T	2.750									
	BHCL-H72875-**-SAF-STB	2½ P	2.875									
	BHCL-H7300-**-SAF-STB	3 T	3.000									
	BHCL-H73500-**-SAF-STB	3 P	3.500									
H8	BHCL-H7350-**-SAF-STB	3½ T	3.500	8.11	6.62	6.625	0.59	1.188	1.000	0.187	3/4- 10 UNC	11.88
	BHCL-H8400-**-SAF-STB	4 T	4.000									
	BHCL-H84500-**-SAF-STB	4 P	4.500									
	BHCL-H8450-**-SAF-STB	4½ T	4.500									
H9	BHCL-H8500-**-SAF-STB	5 T	5.000	9.88	8.06	7.875	0.59	1.375	1.062	0.187	7/8- 9 UNC	16.60
	BHCL-H9500-**-SAF-STB	5 T	5.000									
	BHCL-H9525-**-SAF-STB	5¼ T	5.250									
	BHCL-H95563-**-SAF-STB	5 P	5.563									
	BHCL-H9600-**-SAF-STB	6 T	6.000									
H10	BHCL-H96625-**-SAF-STB	6 P	6.625	12.48	10.43	10.625	0.59	1.375	1.250	0.187	1½- 7 UNC	38.49
	BHCL-H06625-**-SAF-STB	6 P	6.625									
	BHCL-H0800-**-SAF-STB	8 T	8.000									
	BHCL-H08625-**-SAF-STB	8 P	8.625									

\*\* Specify clamp material: PP = Polypropylene, SP = Santoprene, AL = Aluminum

Above kits include two (2) clamp halves, one (1) cover plate, one (1) weld plate and two (2) hex bolts

For rail mounted option, add 'RCN' to the above part number to replace weld plate with two (2) rail nuts. EG: BHCL-H3100-PP-RCN (For groups H3-H6 only)

# DOUBLE HEAVY SERIES PIPE & TUBE CLAMPS



Group	Part #	Pipe/Tube Size (in)	INCH DIMENSIONS													BOLT LENGTH	Weight (lbs)
			D	W	H	C	T	K	L	O	P	R	U	N	M		
H3	BHCL-DH 3025-**	¼ T	0.250	2.250	1.375	1.30	0.313	1.250	2.875	0.063	0.500	0.698	1.000	1.250	2½	3/8-16 1½ Lg	1.48
	BHCL-DH 3038-**	¼ T	0.375														
	BHCL-DH 3040S-**	½ P	0.405														
	BHCL-DH 3050-**	½ T	0.500														
	BHCL-DH 30540-**	¼ P	0.540														
	BHCL-DH 3062-**	¾ T	0.625														
H4	BHCL-DH 30675-**	¾ P	0.675	2.750	1.875	1.77	0.313	1.250	3.375	0.063	0.500	0.698	1.250	1.250	2½	3/8-16 2½ Lg	1.82
	BHCL-DH 4075-**	¼ T	0.750														
	BHCL-DH 40840-**	½ P	0.840														
	BHCL-DH 4087-**	¾ T	0.875														
	BHCL-DH 4100-**	1 T	1.000														
H5	BHCL-DH 41050-**	¾ P	1.050	3.375	2.375	2.36	0.313	1.250	4.000	0.063	0.500	0.698	1.500	1.250	2½	3/8-16 2½ Lg	2.22
	BHCL-DH 5125-**	1¼ T	1.250														
	BHCL-DH 51315-**	1 P	1.315														
	BHCL-DH 5150-**	1½ T	1.500														
H6	BHCL-DH 51660-**	1¼ P	1.660	4.500	3.500	3.53	0.375	1.750	5.875	0.125	0.625	0.778	2.125	1.812	3½	7/16-14 4 Lg	5.22
	BHCL-DH 6175-**	1¼ T	1.750														
	BHCL-DH 61900-**	1½ P	1.900														
	BHCL-DH 6200-**	2 T	2.000														
	BHCL-DH 6225-**	2¼ T	2.250														
	BHCL-DH 62375-**	2 P	2.375														
	BHCL-DH 6250-**	2½ T	2.500														
	BHCL-DH 6275-**	2¾ T	2.750														
H7	BHCL-DH 7275-**	2¾ T	2.750	6.000	4.750	4.81	0.375	2.250	7.375	0.125	0.750	0.940	2.750	2.375	4½	5/8-11 5½ Lg	9.98
	BHCL-DH 72875-**	2½ P	2.875														
	BHCL-DH 7300-**	3 T	3.000														
	BHCL-DH 73500-**	3 P	3.500														
	BHCL-DH 7350-**	3½ T	3.500														
H8	BHCL-DH 8400-**	4 T	4.000	8.000	6.625	6.62	0.500	3.000	10.000	0.187	1.000	1.188	3.812	3.188	6	3/4-10 7¼ Lg	23.76
	BHCL-DH 84500-**	4 P	4.500														
	BHCL-DH 8450-**	4½ T	4.500														
	BHCL-DH 8500-**	5 T	5.000														
H9	BHCL-DH 9500-**	5 T	5.000	9.750	7.875	8.06	0.500	3.500	11.750	0.187	1.062	1.375	4.437	3.687	7	7/8-9 8½ Lg	33.20
	BHCL-DH 9525-**	5½ T	5.250														
	BHCL-DH 95563-**	5 P	5.563														
	BHCL-DH 9600-**	6 T	6.000														
H10	BHCL-DH 96625-**	6 P	6.625	12.500	10.625	10.43	0.750	4.500	14.500	0.187	1.250	1.375	6.062	4.875	9½	1½-7 11½ Lg	76.98
	BHCL-DH 0800-**	8 T	8.000														
	BHCL-DH 08625-**	8 P	8.625														

\*\* Specify clamp material: PP = Polypropylene, SP = Santoprene, AL = Aluminum

Above kits include four (4) clamp halves, one (1) double cover plate, one (1) double weld plate and four (4) hex bolts

BAR FLARE  
SYSTEM

PIPE & TUBE

CLAMPS

VALVES

ADAPTERS

HOSES &  
COUPLINGS

O-RINGS

BLOCKS

TOOLING

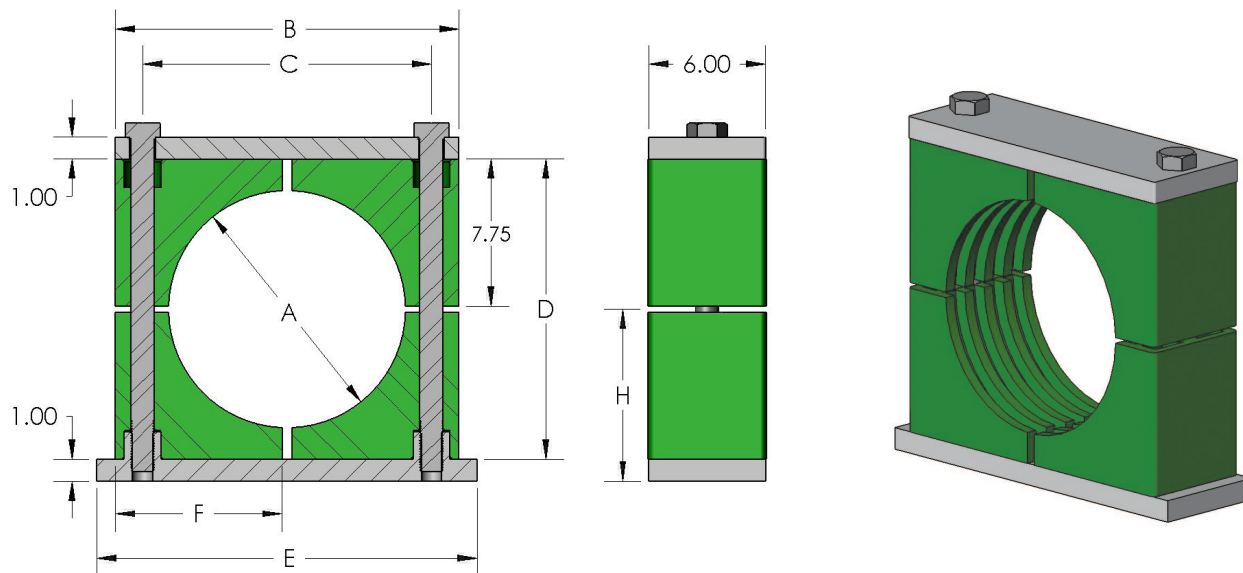
# HEAVY 4 SERIES PIPE & TUBE CLAMPS

Range From 8 $\frac{5}{8}$ " to 30" O.D.

Heavy 4 Pipe Supports have no challenger when it comes to taking on the heavyweights: pipe sizes from 8-5/8" to 30" O.D. The clamps feature a unique 4-segmented plastic design which retains dimensional accuracy, resists stress and impact, absorbs vibration and accomplishes a strong plastic to steel interface. This segmented plastic design is complemented by substantial steel support hardware.

Heavy 4 Supports can be quickly and effectively secured and are virtually maintenance-free. The 4-segment design offers greater dimensional accuracy and a stronger plastic to steel interface unobtainable in large, two-piece designs which have a tendency to shrink and distort after molding. Four precision molded plastic segments are identical and interchangeable. Four bosses welded onto each cover plate and weld plate mate with cored cylindrical recesses molded into each plastic segment achieving a composite plastic-to-steel interface. These bosses provide an easy, snap-in assembly. 1-1/4" diameter hex bolts engage threaded bushings in the weld plate. The threaded bushings are welded into the weld plate from the bottom, assuring consistent and uniform torque and preventing pull-out.

As in the Standard, twin and heavy series the clamp segments are molded of tough, industrial grade polypropylene or santoprene for higher temperature service. The plastics are stress and impact resistant, and absorb energy to help dampen vibration and control noise in compliance with OSHA environmental requirements. The plastics resist stress cracking and conform to minor pipe irregularities. Order numbers including decimal O.D. are molded into each segment for easy identification. Weld plates and cover plates are manufactured from low carbon steel material. For corrosive application, stainless steel or plated hardware is available.



GROUP NO.	ORDER NO.	Pipe Size	INCH DIMENSIONS							Weight (lbs/set)
			A	B	C	D	E	F	H	
H11	BHCL-SH 11862-**	8"	8 $\frac{5}{8}$	18 $\frac{3}{4}$	15.687	16	20	8 $\frac{5}{8}$	9	100
	BHCL-SH 11075-**	10"	10 $\frac{3}{4}$							
	BHCL-SH 11275-**	12"	12 $\frac{3}{4}$							
H12	BHCL-SH 12140-**	14"	14	23 $\frac{1}{2}$	20.875	20	26	11 $\frac{1}{4}$	11	120
	BHCL-SH 12160-**	16"	16							
	BHCL-SH 12180-**	18"	18							
H13	BHCL-SH 13200-**	20"	20	24 $\frac{3}{4}$	22.25	22	27 $\frac{1}{2}$	11 $\frac{3}{4}$	12	130
H14	BHCL-SH 14240-**	24"	24	28 $\frac{3}{4}$	26.25	26	30	11 $\frac{3}{4}$	14	150
H15	BHCL-SH 15300-**	30"	30	34 $\frac{3}{4}$	32.25	32	36	11 $\frac{3}{4}$	17	180

\*\* Specify clamp material: PP = Polypropylene, SP = Santoprene



# TWIN SERIES

TWIN SERIES CLAMPS will accommodate pipes, tubes and hoses ranging in size from 1/4" to 1-5/8" O.D.

In addition to shock and vibration absorption properties, the Twin Clamp can support multiple tubes or hose and provide a close center distance.

Typical installations: Off-highway equipment, agricultural equipment, material handling, construction, and food processing plants.

Clamps for tube and metric sizes, other than those listed, can be furnished upon request.

A basic clamp assembly consists of a weld plate, two (2) identical clamp halves, an arched cover plate and one (1) hex bolt. Twin weld and cover plates are furnished in plain carbon steel or zinc plated finish (zinc plated is standard).

Group T1 is supplied with 1/4-20 hardware. Group T2 - T5 can be supplied with either 5/16-18 or 3/8-16 hardware (5/16-18 hardware is standard)

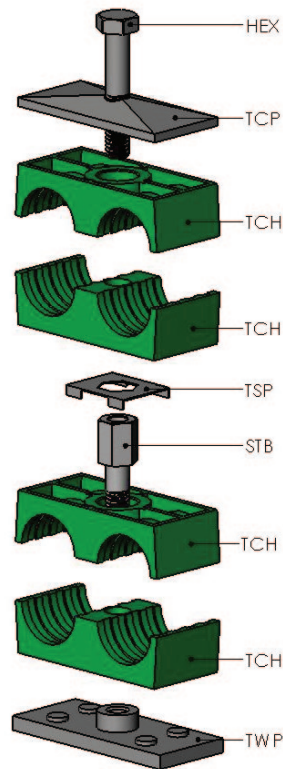
Clamp units for lines with two different diameters can be provided upon request.

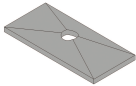
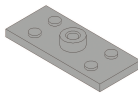
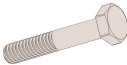

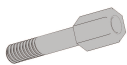
Clamp halves are made of Polypropylene (PP) in green or black and Santoprene (SP) in tan. Please refer to the Technical section for plastic properties.

CLAMP INSERTS			
GROUP	SIZE	CLAMP OD	ORDER NO.
T1	1/4 T	0.250	BHCL-T1025-**-
	3/8 T	0.375	BHCL-T1038-**-
T2	1/4 T	0.250	BHCL-T2025-**-
	3/8 T	0.375	BHCL-T2038-**-
	1/4 P	0.405	BHCL-T20405-**-
	1/2 T	0.500	BHCL-T2050-**-
	1/4 P	0.540	BHCL-T20540-**-
	5/8 T	0.625	BHCL-T2062-**-
T3	3/8 P	0.675	BHCL-T20675-**-
	3/4 T	0.750	BHCL-T3075-**-
	1/2 P	0.840	BHCL-T30840-**-
	3/4 T	0.875	BHCL-T3087-**-
T4	1 T	1.000	BHCL-T3100-**-
	3/4 T	0.875	BHCL-T4087-**-
	1 T	1.000	BHCL-T4100-**-
T5	3/4 P	1.050	BHCL-T41050-**-
	1 1/4 T	1.250	BHCL-T5125-**-
	1 P	1.315	BHCL-T51315-**-
	1 1/2 T	1.500	BHCL-T5150-**-
	1 3/4 P	1.660	BHCL-T51660-**-

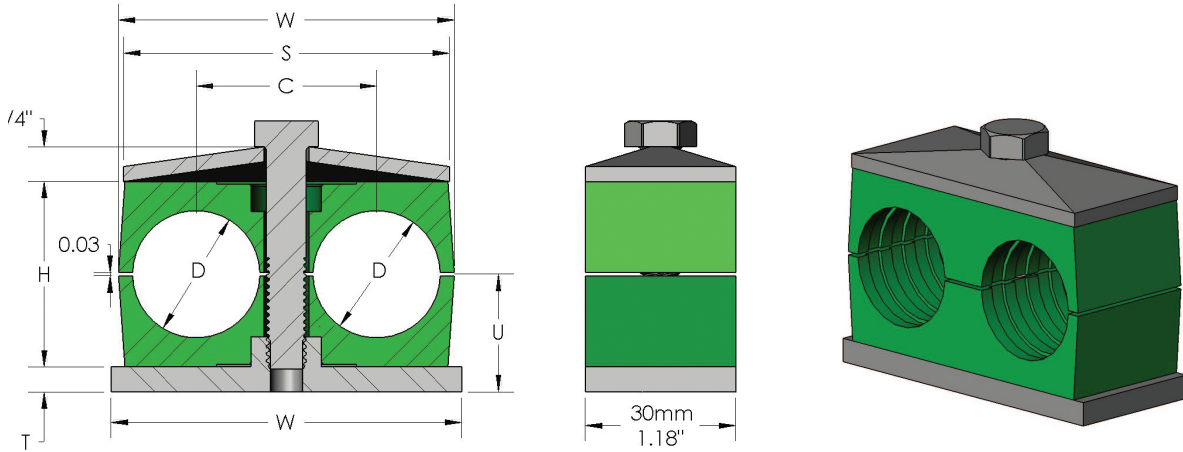
\*\* Specify clamp material: PP = Polypropylene, SP = Santoprene

Clamp inserts ordered in pairs.



HARDWARE				
STANDARD		STACKING		
				
TWIN COVER PLATE	TWIN WELD PLATE	HEX BOLT	TWIN SAFETY PLATE	TWIN STACKING BOLT
BHCL-TCP-T1	BHCL-TWP-T1	BHCL-HEX-T1	BHCL-TCP-T1	BHCL-HEX-T1
BHCL-TCP-T2	BHCL-TWP-T2	BHCL-HEX-T2	BHCL-TCP-T2	BHCL-HEX-T2
BHCL-TCP-T3	BHCL-TWP-T3	BHCL-HEX-T3	BHCL-TCP-T3	BHCL-HEX-T3
BHCL-TCP-T4	BHCL-TWP-T4	BHCL-HEX-T4	BHCL-TCP-T4	BHCL-HEX-T4
BHCL-TCP-T5	BHCL-TWP-T5	BHCL-HEX-T5	BHCL-TCP-T5	BHCL-HEX-T5

# TWIN SERIES PIPE & TUBE CLAMPS



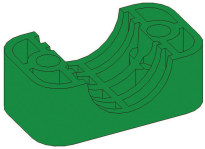
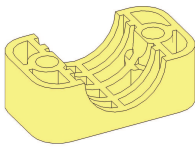
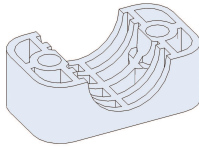
Group	Part #	Pipe/Tube Size (in)	INCH DIMENSIONS						BOLT SIZE	Weight (lbs)
			D	W	H	C	U	S		
T1	BHCL-T1025-**-TCP-TWP	¼ T	0.250	1.437	0.812	0.781	0.562	1.343	¼-20 1-Lg	0.17
	BHCL-T1038-**-TCP-TWP	¾ T	0.375							
T2	BHCL-T2025-**-TCP-TWP	¼ T	0.250	2.187	1.000	1.250	0.687	2.031	5/16-18 1¼-Lg	0.29
	BHCL-T2038-**-TCP-TWP	¾ T	0.375							
	BHCL-T2040S-**-TCP-TWP	⅝ P	0.405							
	BHCL-T2050-**-TCP-TWP	½ T	0.500							
	BHCL-T20540-**-TCP-TWP	¼ P	0.540							
	BHCL-T2062-**-TCP-TWP	⅝ T	0.625							
	BHCL-T20675-**-TCP-TWP	¾ P	0.675							
T3	BHCL-T3075-**-TCP-TWP	¾ T	0.750	2.687	1.500	1.437	0.937	2.562	5/16-18 1¼-Lg	0.35
	BHCL-T30840-**-TCP-TWP	½ P	0.840							
	BHCL-T3087-**-TCP-TWP	¾ T	0.875							
	BHCL-T3100-**-TCP-TWP	1 T	1.000							
T4	BHCL-T4087-**-TCP-TWP	¾ T	0.875	3.187	1.750	1.812	1.062	2.875	5/16-18 2-Lg	0.45
	BHCL-T4100-**-TCP-TWP	1 T	1.000							
	BHCL-T41050-**-TCP-TWP	¾ P	1.050							
T5	BHCL-T5125-**-TCP-TWP	1¼ T	1.250	4.062	2.250	2.187	1.312	3.687	5/16-18 2¼-Lg	0.59
	BHCL-T51315-**-TCP-TWP	1 P	1.315							
	BHCL-T5150-**-TCP-TWP	1½ T	1.500							
	BHCL-T51660-**-TCP-TWP	1¾ P	1.660							

\*\* Specify clamp material: PP = Polypropylene, SP = Santoprene

Above kits come with one (1) cover plate, two (2) clamp plastics, one (1) weld plate and one (1) hex bolt

To order a stacking kit replace -TCP-TWP with -SAF-STB. EG: BHCL-T3100-SP-SAF-STB

## MATERIALS PROPERTIES

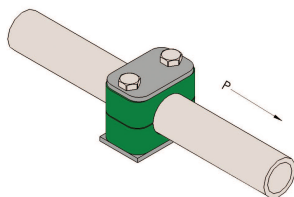
	PP Polypropylene	SP Santoprene	AL Aluminum
			
<b>Color</b>	Green / Black	Tan	Natural Aluminum
<b>Description</b>	Thermoplastic Copolymer	Thermoplastic Elastomer	AISI12
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile Strength</b>	3300 psi (at yield, 73.5°F) (ASTM D638)	1740 psi (at yield, 73.5°F) (ASTM D638)	19,000 psi (at yield, 73.5°F) (ASTM D638)
<b>Tensile Elongation</b>	6.6% (at yield, 73.5°F) (ASTM D638)	31% (at yield, 73.5°F) (ASTM D638)	3.5% (at yield, 73.5°F) (ASTM D638)
<b>Hardness</b>		50 Shore D (ASTM D2240)	
<b>THERMAL PROPERTIES</b>			
<b>Temperature Range</b> (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 * (-54° C to +399° C)
<b>Temperature Range</b> (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 * (-54° C to +260° C)
<b>ELECTRICAL PROPERTIES</b>			
<b>Dielectric Strength</b> (0.0800 in.)	475 V/mil (ASTM D149)	920 V/mil (ASTM D149)	
<b>Dielectric Constant</b>	2.26 - 2.36 (ASTM D150)	2.300 (ASTM D150)	
<b>Volume Resistivity</b>	>2 x 10 <sup>16</sup> ohm-cm (ASTM D257)		4.4 x 10 <sup>6</sup> ohm-cm (ASTM D257)
<b>STANDARDS AND SPECIFICATIONS</b>			
	FDA Regulation Title 21 CFR 177.1520	FDA Regulation Title 21 CFR 177.1520	
	Meets Multiple Automotive Industry Specifications	Meets Multiple Automotive Industry Specifications	
	EU Directive 2002/95/EC (RoHS) Compliant	EU Directive 2002/95/EC (RoHS) Compliant	

\* Tensile and fatigue strength rise as temperature decreases. The tensile elongation decreases as the temperature decreases.

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.



## TIGHTENING TORQUES AND MAXIMUM LOADS IN PIPE DIRECTION



All tightening torques and maximum loads in pipe direction refer to clamps with cover plates and hexagon head bolts acc. To DIN EN ISO 4014/4017 (DIN 931/933).

The max. load in pipe direction (according to DIN 3015, part 10) is an average value, determined by three tests at 23°C with a steel pipe according to DIN 2448 St37 - rolled surface - taking static friction into consideration.

Sliding occurs when the maximum pipe load values (**P**) are reached.

### STANDARD SERIES (according to DIN 3015, part 1)

Group	Hexagon Head Bolt	Polypropylene (PP)				Santoprene (SP)				Aluminum (AL)			
		Tightening Torque		Max Pipe Load (P)		Tightening Torque		Max Pipe Load (P)		Tightening Torque		Max Pipe Load (P)	
		[Nm]	Ft/lb	[kN]	lbf	[Nm]	Ft/lb	[kN]	lbf	[Nm]	Ft/lb	[kN]	lbf
1	M6 1/4-20 UNC	8	6	1,1	247	8	6	1,0	225	12	9	4,2	944
2		8	6	1,3	292	8	6	1,2	270	12	9	4,3	967
3		8	6	1,4	315	8	6	1,3	290	12	9	4,9	1,101
4		8	6	1,5	337	8	6	1,4	315	12	9	5,0	1,124
5		8	6	1,9	427	8	6	1,7	380	12	9	7,3	1,641
6		8	6	2,0	450	8	6	1,8	405	12	9	8,9	2,000
7		8	6	2,3	517	8	6	1,9	425	12	N/A	N/A	N/A

### HEAVY SERIES (according to DIN 3015, part 2)

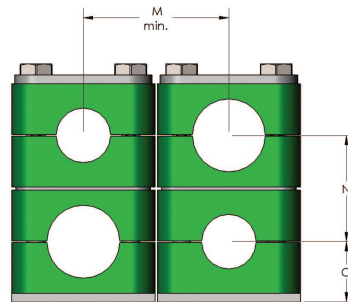
Group	Hexagon Head Bolt	Polypropylene (PP)				Santoprene (SP)				Aluminum (AL)			
		Tightening Torque		Max Pipe Load (P)		Tightening Torque		Max Pipe Load (P)		Tightening Torque		Max Pipe Load (P)	
		[Nm]	Ft/lb	[kN]	lbf	[Nm]	Ft/lb	[kN]	lbf	[Nm]	Ft/lb	[kN]	lbf
H3	M10 3/8-16 UNC	12	9	1,6	360	12	9	1,5	335	30	22	12,1	2,720
H4		12	9	2,9	652	12	9	2,7	600	30	22	15,1	3,395
H5		15	11	3,3	742	15	11	3,0	675	35	26	15,5	3,485
H6	M12; 7/16"-14 UNC	30	22	8,2	1,843	30	22	7,8	1,755	55	41	29,5	6,609
H7	M16; 5/8"-11 UNC	45	33	11,0	2,472	45	33	9,0	2,025	120	86	34,9	7,845
H8	M20; 3/4"-10 UNC	80	59	14,0	3,147	80	59	12,0	2,700	220	162	70,6	15,871
H9	M24; 7/8"-9 UNC	110	81	28,0	6,300	110	81	25,0	5,625	250	184	50,0	11,240
H10	M30; 1 1/4"-7 UNC	133	132	40,0	8,992	133	132	34,0	7,650	500	369	84,5	18,996

### TWIN SERIES (according to DIN 3015, part 3)

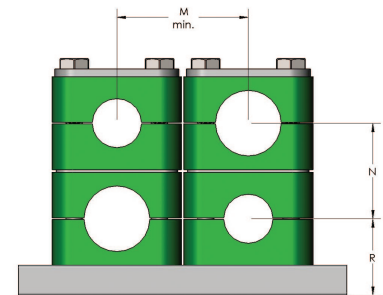
Group	Hexagon Head Bolt	Polypropylene (PP)				Santoprene (SP)			
		Tightening Torque		Max Pipe Load (P)		Tightening Torque		Max Pipe Load (P)	
		[Nm]	Ft/lb	[kN]	lbf	[Nm]	Ft/lb	[kN]	lbf
T1	M6; 1/4"-20 UNC	5	4	0,9	202	5	4	0,9	202
T2	M8 5/16"-8 UNC	12	9	2,1	472	12	9	2,2	495
T3		12	9	1,9	427	12	9	2,0	450
T4		12	9	2,7	607	12	9	2,9	652
T5		8	6	1,7	382	8	6	2,5	562

## LAYOUT DATA

Standard Series					
GROUP	unit	M	N	O	R
1	in	1½	1¾	1⅞	1
	mm	36	29	17,5	25,4
2	in	1¾	1¾	1⅞	1¾
	mm	42	35	20,6	28,5
3	in	2	1¾	1⅞	1¾
	mm	50	35	20,6	28,5
4	in	2¼	1¾	1⅞	1¾
	mm	60	41	23,8	31,7
5	in	2½	2¾	1⅞	1¾
	mm	70	60	33,3	41,2
6	in	3½	2¾	1⅞	1¾
	mm	88	66	36,5	44,5
7	in	5¼	4¾	2⅞	2¾
	mm	130	111	58,7	66,7

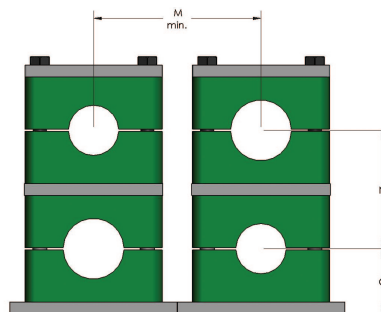


WITH WELD PLATE

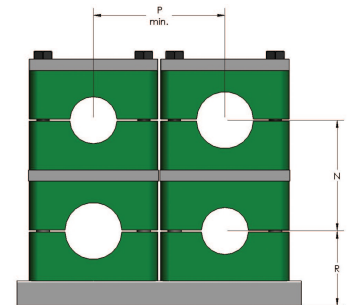


RAIL MOUNTING

Heavy Series						
GROUP	unit	M	P	N	O	R
H3	in	2½	2⅞	1⅞	1	1⅞
	mm	73,0	58,7	42,8	25,4	39,7
H4	in	3¾	2¾	2⅞	1¾	1⅞
	mm	85,7	73,0	55,6	31,7	46,0
H5	in	4	3⅞	2⅞	1¾	2⅞
	mm	101,6	87,3	68,3	38,1	52,4
H6	in	5¾	4¾	3¾	2¾	2¾
	mm	148,5	117,5	98,4	53,9	66,7
H7	in	7¾	-	5¾	2¾	-
	mm	187,3	-	130,2	69,8	-
H8	in	10	-	7⅞	3⅞	-
	mm	254,0	-	182,6	96,8	-
H9	in	11¾	-	8⅞	4⅞	-
	mm	298,4	-	214,3	112,7	-
H10	in	14½	-	11⅞	6⅞	-
	mm	368,3	-	284,2	154,0	-

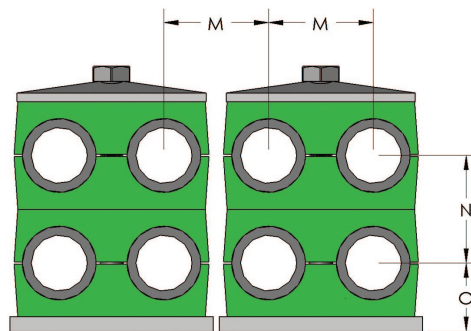


WITH WELD PLATE



RAIL MOUNTING

Twin Series				
GROUP	unit	M	N	O
T1	in	1⅞	1⅞	1⅞
	mm	20,6	20,6	14,3
T2	in	1¾	1	1⅞
	mm	31,7	25,4	17,5
T3	in	1⅞	1¾	1⅞
	mm	36,5	38,1	23,8
T4	in	1⅞	1¾	1⅞
	mm	46,0	44,5	26,9
T5	in	2⅞	2¾	1⅞
	mm	55,6	57,2	33,3



Dimensions are for reference only and are subject to change without notice.

# NOTES

BAR FLARE  
SYSTEM

PIPE & TUBE

CLAMPS

VALVES

ADAPTERS

HOSES &  
COUPLINGS

O-RINGS

BLOCKS

TOOLING