



CLAMPS

STANDARD, HEAVY AND TWIN TUBE, PIPE AND HOSE CLAMPS

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TWIN SERIES

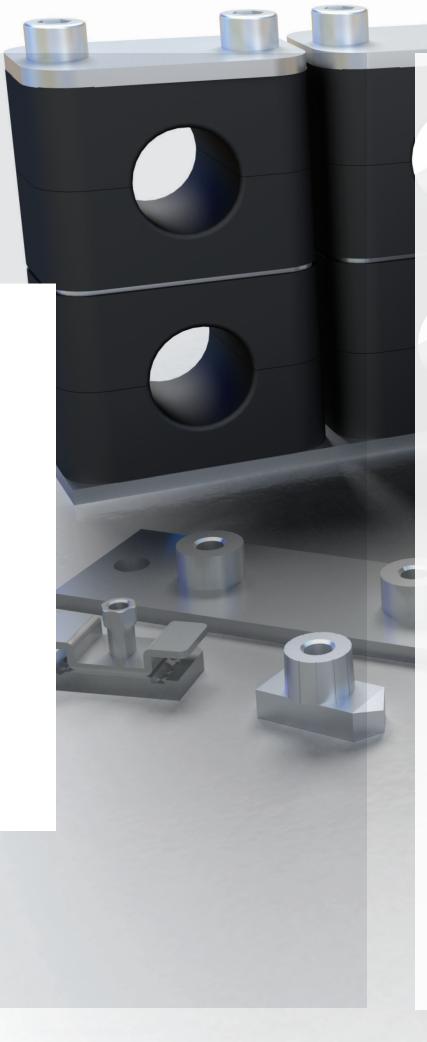
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EVOLUTON OF CLAMPS

Today, clamps are widely used for providing simple, reliable dampening support for tubes, pipes, hoses and conduits in industrial and mobile hydraulic systems, process industries and electrical construction.

In many installations, pipe, hose or tube clamping is required to lessen vibration, provide rigid support and prevent loosening of the joints and welds. Brennan clamps, with their multi-rib design, prevent vibration transmission. They also provide support in both vertical and horizontal directions. This support relieves the stress caused by unequal movements in the pipe, hose or tubing.





Standard Series Clamps are typically used in installations with average load and moderate vibration. These clamps are ideal for applications like mobile equipment, machine tools and instrumentation plumbing.

On equipment with little to no vibration, Standard Series Clamps can be used without the cover plate to reduce cost.

Brennan Standard Series Clamps can be mounted using weld-plates or mounted on standard rails using rail nuts. Rails are an easy way to mount multiple clamps on a single base. Rails also allow flexibility when the pitch between the pipe or tubing is uneven. Rail-mounted pipe clamps can also be used with or without the cover plate, depending on the application.

Standard Series Clamps are available for pipe and tube sizes up to 4" O.D. Mounting rail is available in 1 or 2 meter lengths.

HEAVY SERIES CLAMPS

Brennan Heavy Series Clamps are great for higher load and higher vibration installations. Typical applications include primary metal manufacturing and heavy duty construction or mining equipment.

Heavy Series Clamps can be mounted using weld-plates. Sizes up to 2 3/4' O.D. can also be mounted using heavy rails using rail nuts. Brennan's heavy mounting rail is available in 1 or 2 meter lengths and is economical for multiple mountings on a single rail. Heavy Series Clamps are available for pipe and tube sizes up to 5" O.D.

TWIN SERIES CLAMPS

Twin Series Clamps are ideal for installations with closely placed lines. Typical applications include general industrial use and mobile applications with moderate vibration.

The Twin Series can be mounted using a weld-plate or mounting rail with rail nuts. Twin Series Clamps can be used with Standard Series mounting rail and are available in pipe and tube sizes up to 1.65" O.D.

Standard, Heavy and Twin Series Clamps can all be used in many mounting configurations for compact, efficient plumbing in installations with multiple lines stacked vertically or horizontally. They can also be installed back-to-back in conditions of extreme vibration.



PIPING vs TUBING

DIFFERENCE/COMPARISON

PIPE: SIZE AND IDENTIFICATION

For pipe, the determining reference is:

- A The **NB** (nominal bore) or **NPS** (nominal pipe size) which loosely refers to inner diameter
- B THE SCHEDULE of the pipe denotes the wall thickness of the pipe

EXAMPLE:

For an ASME/ANSI B 36.10 Welded and Seamless Wrought Steel Pipe the inside diameter – ID – of a NPS 2 inches pipe with:

2" Schedule 40 is 2.067"

2" Schedule 80 is 1.939"

The outside diameters of both schedules are constant at 2.375". Therefore, the "Schedule" of the pipe determines the thickness of the pipe and, therefore, the ID.

Pipe generally has looser tolerances, is always cylindrical and is cheaper to produce than tubing.



PIPE

A pipe and a tube are both, by definition, hollow cylinders used to pass liquids through them. Both are created to be rigid and permanent contributions from an engineering standpoint.

- 1 Identified by NB (nominal bore).
- Wall thickness of Pipe is determined by the schedule i.e. sch. 10, sch. 80, sch. 160, etc.
- Lower schedule no. wall thickness is lower. Higher schedule no. wall thickness is higher.
- 4 Pipe is fabricated for most of sizes and drawn for lower sizes.
- 5 Pipe is always cylindrical.
- Pipe starts from 1/8" (6mm) to 24" NB or 36". Fabricated pipe can be any diameter.
- 7 O.D. of pipe is constant/fixed regardless of the pipe's schedule.



TUBE: SIZE AND IDENTIFICATION

For TUBING, the determining reference is:

- A The **OD** (outside diameter) which is specified
- B THE WALL THICKNESS of the tube

Tube dimensions are "actual" and not "nominal."

Unlike pipe, which is always cylindrical, tubing can be round, square, rectangular or any shape of hollow material of uniform thickness.

Tolerances for tubing are tighter than those for pipe and tubing is generally more expensive to produce.

PIPE VS. TUBE: IMPLICATIONS

The decision to use tube or pipe depends on the project engineer. Choice to use pipe or tube impacts the purchase of associated items such as clamps, fittings, etc.

For the selection of CLAMPS, the user will designate PIPE CLAMPS or TUBE CLAMPS depending on if they are using tubing or pipe. Apart from nomenclature and sizing, there is no difference between the form and function of a TUBE CLAMP or a PIPE CLAMP.

TUBE

- 1 Identified by outside diameter.
- 2 Wall thickness of a tube is defined by the specific measurement or gauge.
- Lower gauge no. wall thickness is higher. Higher gauge no. wall thickness is lower.
- 4 Tubing is always drawn and never fabricated.
- A tube can be circular, square, oval, rectangular, etc.
- Tubing starts from 1/8" to max. 4" or 6" for eg: 1/4" OD x .035" wall thickness.

CLAMPS

FEATURES & BENEFITS

FEATURES OF CLAMPS

- Simple to operate
- Easy to install
- Can accommodate various temperature ranges
- Make for quick, easy pipe installation and layout
- Very high impact resistance
- Noise reducing
- · Good appearance
- Shock-absorption
- · Vibration dampening
- Stackable and adjustable
- Prevents loosening of joints

HOW TO SELECT CLAMPS

STYLE OF THE BODY

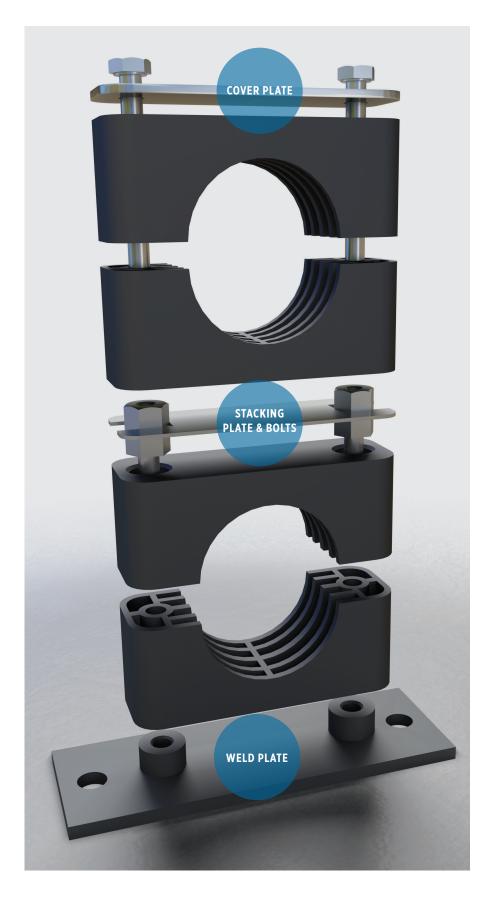
• Can be slotted, smooth or with a rubber insert for maximum vibration dampening.

MATERIAL OF THE METALLIC PARTS

 Carbon steel untreated, phosphate treated or zincnickel plated and stainless steel.

USAGE CRITERIA

- Type of application for instance, applications in steel mills may require heavy clamps
- Pressure rating during flow higher pressure causes more vibration
- Economy in terms of space carefully consider how your clamp assemblies need to be designed







BRENNAN CLAMPS: RANGE



STANDARD SERIES PIPE / TUBE CLAMPS

Clamp bodies in polypropylene with hardware in unplated steel, phosphate treated, zinc-nickel plated or 304 or 316 stainless steel, imperial or metric.



HEAVY SERIES PIPE / TUBE CLAMPS

Clamp bodies in polypropylene with hardware in unplated steel, phosphate treated, zinc-nickel plated or 304 or 316 stainless steel, imperial or metric.



TWIN SERIES CLAMPS

Clamp bodies in polypropylene with hardware in unplated steel, phosphate treated, zinc-nickel plated or 304 or 316 stainless steel, imperial or metric.

STANDARD SE



STANDARD SERIES: COMPLETE CLAMP KITS

- Everything you need in one package: clamp body, weld plate, cover plate and bolts with only one part number for simplified ordering.
- Stainless kits are also available, see below for ordering instructions.
- Kit bodies are in polypropylene with slotted profile only.

COMPLETE KIT

FOR TUBING APPLICATIONS

PART NO.	GROUP	ØD (in.)
CT-S1-04-CS-A	1	1/4
CT-S1-06-CS-A	'	3/8
CT-S2-08-CS-A	2	1/2
CT-S2-10-CS-A		5/8
CT-S3-12-CS-A		3/4
CT-S3-14-CS-A	3	7/8
CT-S3-16-CS-A		1
CT-S5-20-CS-A	5	1 1/4
CT-S5-24-CS-A		1 1/2
CT-S6-28-CS-A	6	1 3/4
CT-S6-32-CS-A	Ů	2
CT-S7-36-CS-A		2 1/4
CT-S7-40-CS-A	7	2 1/2
CT-S7-44-CS-A	_ ′	2 3/4
CT-S7-48-CS-A		3
CT-S8-56-CS-A	8	3 1/2
CT-S8-64-CS-A	0	4

- Kit contains: slotted polypropylene body, phosphate treated carbon steel weld plate, zincnickel plated cover plate and bolts.
- For alternate finishes/materials replace -CS in the above part numbers with the following codes: -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability

COMPLETE KIT

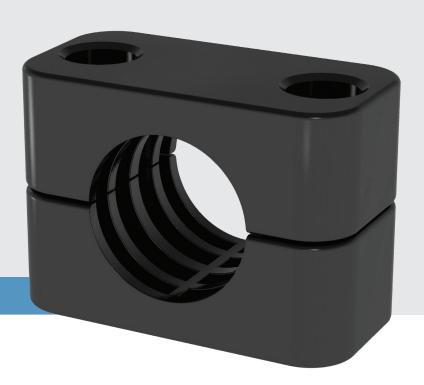
FOR PIPE APPLICATIONS

PART NO.	GROUP	NB* (in.)
CP-S2-04-CS-A	2	1/4
CP-S2-06-CS-A	2	3/8
CP-S3-08-CS-A	3	1/2
CP-S4-12-CS-A	4	3/4
CP-S5-16-CS-A	5	1
CP-S5-20-CS-A	3	1 1/4
CP-S6-24-CS-A	6	1 1/2
CP-S7-32-CS-A	7	2
CP-S7-40-CS-A		2 1/2
CP-S8-48-CS-A	8	3

- Kit contains: slotted polypropylene body, phosphate treated carbon steel weld plate, zincnickel plated cover plate and bolts.
- For alternate finishes/materials replace -CS in the above part numbers with the following codes: -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability
- Nominal bore*

STANDARD CLAMP BODIES

- The Standard Series is available with slotted, smooth or rubber insert profiles in sizes for tube, pipe and hose.
- Brennan slotted profile clamp bodies are a proven product for safe installation of rigid pipes and tubes. Available in common sizes, they have excellent vibration and noise reduction as well as weather resistance.



SLOTTED PROFILE

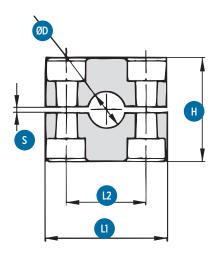
PART NO.	NB*	GROUP	•	12	H	Smin	w
ACB-SP2-P04-PP	1/4	2	1.65	1.02	1.3	0.02	1.18
ACB-SP2-P06-PP	3/8	-					
ACB-SP3-P08-PP	1/2	3	1.97	1.3	1.42	0.02	1.18
ACB-SP4-P12-PP	3/4	4	2.32	1.57	1.65	0.02	1.18
ACB-SP5-P16-PP	1	5	2.8	2.05	2.28	0.03	1.18
ACB-SP5-P20-PP	1 1/4						
ACB-SP6-P24-PP	11/2	6	3.39	2.6	2.6	0.03	1.18
ACB-SP7-P32-PP	2	7	4.76	3.7	3.66	0.03	1.18
ACB-SP7-P40-PP	2 1/2	,					
ACB-SP8-P48-PP	3	8	5.79	4.72	4.65	0.03	1.18

- Standard clamp bodies are black polypropylene with slotted inside surface profile.
- For polyamide clamp bodies substitute -PA for -PP above (ACB-SP5-P16-PP becomes ACB-SP5-P16-PA)
- Nominal Bore*



TUBE DIMENSIONS IN INCHES

PART NO.	ØD	GROUP	1	12	H	Smin	w
ACB-SP1-T04-PP	1/4	1	1.46	0.79	1.06	0.02	1.18
ACB-SP1-T06-PP	3/8						
ACB-SP2-T08-PP	1/2	2	1.65	1.02	1.3	0.02	1.18
ACB-SP2-T10-PP	5/8	-					
ACB-SP3-T12-PP	3/4		1.97	1.3	1.42	0.02	1.18
ACB-SP3-T14-PP	7/8	3					
ACB-SP3-T16-PP	1						
ACB-SP5-T20-PP	11/4	5	2.8	2.05	2.28	0.03	1.18
ACB-SP5-T24-PP	11/2						
ACB-SP6-T28-PP	13/4	6	3.39	2.6	2.6	0.03	1.18
ACB-SP6-T32-PP	2	ď					
ACB-SP7-T36-PP	2 1/4		4.76	3.7	3.66	0.03	1.18
ACB-SP7-T40-PP	21/2	7					
ACB-SP7-T44-PP	2 3/4						
ACB-SP7-T48-PP	3						
ACB-SP8-T64-PP	4	8	5.79	4.72	4.65	0.03	1.18



TUBE - METRIC

DI	IMF	NSI	ONS	IN	MM	

PART NO.	ØD	GROUP	(1)	12	H	Smin	W
ACB-SP1-TM06-PP	6		37	20	27	0.4	30
ACB-SP1-TM08-PP	8	1					
ACB-SP1-TM10-PP	10	·					
ACB-SP1-TM12-PP	12						
ACB-SP2-TM14-PP	14		42	26	33	0.6	30
ACB-SP2-TM15-PP	15	2					
ACB-SP2-TM16-PP	16	_					
ACB-SP2-TM18-PP	18						
ACB-SP3-TM19-PP	19		50	33	36	0.6	30
ACB-SP3-TM20-PP	20	3					
ACB-SP3-TM22-PP	22						
ACB-SP3-TM25-PP	25						
ACB-SP4-TM28-PP	28	4	59	40	42	0.6	30
ACB-SP4-TM30-PP	30	, T					
ACB-SP5-TM32-PP	32		71	52	58	0.8	30
ACB-SP5-TM35-PP	35						
ACB-SP5-TM38-PP	38	5					
ACB-SP5-TM40-PP	40						
ACB-SP5-TM42-PP	42						

[•] Standard clamp bodies are black polypropylene with slotted inside surface profile.

[•] For polyamide clamp bodies substitute -PA for -PP above (ACB-SP3-T16-PP becomes ACB-SS3-T16-PA)

STANDARD CLAMP BODIES

• Smooth profile clamp bodies are perfect for use with hoses and cables. They have chamfered edges to reduce wear and damage.

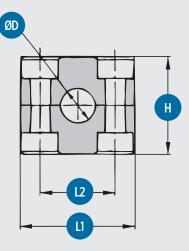


SMOOTH PROFILE

HOSE DIMENSIONS IN INCHES

PART NO.	NB	GROUP	(1)	12	H	W	ØD
ACB-SS3-H04-PP	1/4		1.97	1.30	1.4	1.18	.53
ACB-SS3-H06-PP	3/8	3					.69
ACB-SS3-H08-PP	1/2						.81
ACB-SS3-H10-PP	5/8						.94
ACB-SS5-H12-PP	3/4		2.80	2.05	2.22	1.18	1.09
ACB-SS5-H16-PP	1	5					1.41
ACB-SS5-H20-PP	1 1/4						1.72
ACB-SS6-H24-PP	1 1/2	6	3.39	2.60	2.54	1.18	1.96

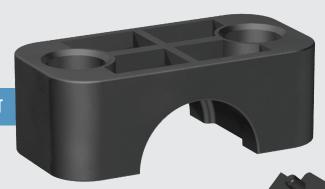
- Standard clamp bodies are black polypropylene with smooth inside surface profile.
- For polyamide clamp bodies substitute -PA for -PP above (ACB-SS3-H04-PP becomes ACB-SS3-H04-PA)
- Nominal Bore, Hydraulic hose SAE 100 R1 AT *





• For the ultimate in noise isolation or for the most protective installation of delicate hoses or cables use Brennan clamp bodies with soft rubber inserts.

BODY WITH RUBBER INSERT



BODIES FOR INSERTS

DIMEN	ICIONS	IN S	INCHES	/MM

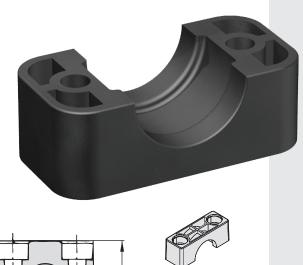
PART NO.	GROUP	ØD	0	12	H	W
ACB-SRI4-PP	4	.98/25	2.32/59	1.57/40	1.62/41.2	1.18/30
ACB-SRI6-PP	6	1.5/38	3.39/86	2.6/66	2.54/64.5	1.18/30

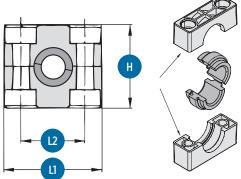
- Clamp bodies are black polypropylene profiled for use with rubber inserts.
- Match the group number of your clamp bodies with your rubber inserts for correct fit.

RUBBER INSERTS DIMENSIONS IN INCHES/MM

PART NO.	ØD IN	ØD MM	GROUP	
ARI-S4-M06		6		
ARI-S4-M08	5/16	8		
ARI-S4-M10		10		
ARI-S4-M12		12		
ARI-S4-M12.7	1/2	12.7		
ARI-S4-M14		14	4	
ARI-S4-M15		15		
ARI-S4-M16	5/8	16		
ARI-S4-M17.2		17.2		
ARI-S4-M18		18		
ARI-S4-M19	3/4	19		
ARI-S6-M20		20		
ARI-S6-M21.3		21.3		
ARI-S6-M22	7/8	22		
ARI-S6-M25		25	6	
ARI-S6-M26.9		26.9	D	
ARI-S6-M28		28		_
ARI-S6-M30		30		
ARI-S6-M32	1 1/4	32		

- Inserts are black thermoplastic elastomer.
- Match the group number of your clamp bodies with your inserts for correct fit.

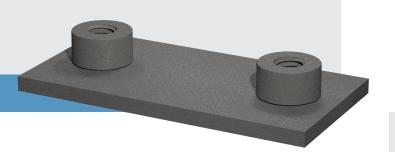




STANDARD WELD PLATES

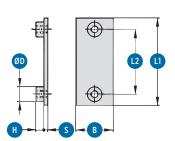
SINGLE AND ELONGATED





SINGLE DIMENSIONS IN INCHES

PART NO.	GROUP	(1)	12	B	S	H	ØD
AWP-S1-U-PCS	1	1.42	0.79	1.18	.12	.26	.47
AWP-S2-U-PCS	2	1.65	1.02	1.18	.12	.26	.47
AWP-S3-U-PCS	3	1.97	1.30	1.18	.12	.26	.47
AWP-S4-U-PCS	4	2.36	1.57	1.18	.12	.26	.47
AWP-S5-U-PCS	5	2.80	2.05	1.18	.12	.26	.47
AWP-S6-U-PCS	6	3.46	2.60	1.18	.12	.26	.47
AWP-S7-U-PCS	7	4.80	3.70	1.18	.20	.26	.47
AWP-S8-U-PCS	8	5.83	4.72	1.18	.20	.26	.47



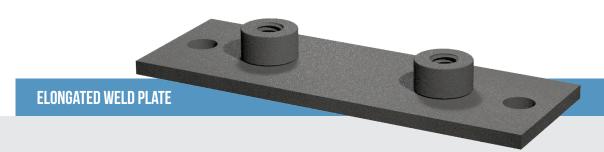
- Thread is 1/4 20 UNC
- Weld plate is phosphate treated carbon steel. For alternate finishes/materials replace -PCS in the above part numbers with the following codes: -UP unplated carbon steel, -ZN zinc-nickel plated carbon steel, -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.
- Match the group number of your weld plates with your clamp bodies for correct fit.

SINGLE - METRIC DIMENSIONS IN MM

PART NO.	GROUP	(1)	12	B	S	H	ØD
AWP-S1-M-PCS	1	36	20	30	3	6.5	12
AWP-S2-M-PCS	2	42	26	30	3	6.5	12
AWP-S3-M-PCS	3	50	33	30	3	6.5	12
AWP-S4-M-PCS	4	60	40	30	3	6.5	12
AWP-S5-M-PCS	5	71	52	30	3	6.5	12
AWP-S6-M-PCS	6	88	66	30	3	6.5	12
AWP-S7-M-PCS	7	122	94	30	5	6.5	12
AWP-S8-M-PCS	8	148	120	30	5	6.5	12

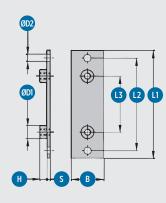
- Thread is 6mm Metric ISO
- Weld plate is phosphate treated carbon steel. For alternate finishes/materials replace -PCS in the above part numbers with the following codes: -UP unplated carbon steel, -ZN zinc-nickel plated carbon steel, -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.
- Match the group number of your weld plates with your clamp bodies for correct fit.





ELONGATED DIMENSIONS IN INCHES

PART NO.	GROUP	(12	B	B	S	H	ØDI	ØD2
AWPE-S1-U-PCS	1	2.52	0.79	1.97	1.18	.12	.26	.47	.26
AWPE-S2-U-PCS	2	2.76	1.02	2.20	1.18	.12	.26	.47	.26
AWPE-S3-U-PCS	3	3.07	1.30	2.52	1.18	.12	.26	.47	.26
AWPE-S4-U-PCS	4	3.43	1.57	2.87	1.18	.12	.26	.47	.26
AWPE-S5-U-PCS	5	3.94	2.05	3.39	1.18	.12	.26	.47	.26
AWPE-S6-U-PCS	6	4.53	2.60	3.94	1.18	.12	.26	.47	.26
AWPE-S7-U-PCS	7	5.91	3.70	5.35	1.18	.20	.26	.47	.26
AWPE-S8-U-PCS	8	7.01	4.72	6.38	1.18	.20	.26	.47	.26



- Thread is 1/4 20 UNC
- Weld plate is phosphate treated carbon steel. For alternate finishes/materials replace -PCS in the above part numbers with the following codes: -UP unplated carbon steel, -ZN zinc-nickel plated carbon steel, -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.
- Match the group number of your weld plates with your clamp bodies for correct fit.

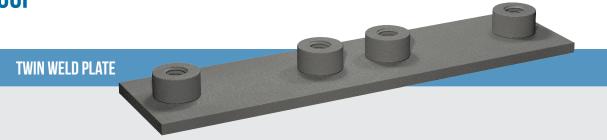
ELONGATED - METRIC DIMENSIONS IN MM

PART NO.	GROUP	(1)	12	B	B	5	H	ØDI	ØD2
AWPE-S1-M-PCS	- 1	64	20	50	30	3	6.5	12	6.5
AWPE-S2-M-PCS	2	70	26	56	30	3	6.5	12	6.5
AWPE-S3-M-PCS	3	78	33	64	30	3	6.5	12	6.5
AWPE-S4-M-PCS	4	87	40	73	30	3	6.5	12	6.5
AWPE-S5-M-PCS	5	100	52	86	30	3	6.5	12	6.5
AWPE-S6-M-PCS	6	115	66	100	30	3	6.5	12	6.5
AWPE-S7-M-PCS	7	150	94	136	30	5	6.5	12	6.5
AWPE-S8-M-PCS	8	178	120	162	30	5	6.5	12	6.5

- Thread is 6mm Metric ISO
- Weld plate is phosphate treated carbon steel. For alternate finishes/materials replace -PCS in the above part numbers with the following codes: -UP unplated carbon steel, -ZN zinc-nickel plated carbon steel, -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.
- Match the group number of your weld plates with your clamp bodies for correct fit.

STANDARD WELD PLATES

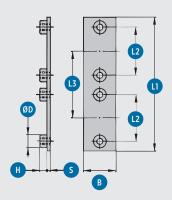
TWIN AND GROUP



TWIN

DIMENSIONS IN INCHES

PART NO.	GROUP	(1)	12	B	B	S	H	ØD
AWPT-S1-U-PCS	- 1	3.03	0.79	1.46	1.18	.12	.26	.47
AWPT-S2-U-PCS	2	3.39	1.02	1.73	1.18	.12	.26	.47
AWPT-S3-U-PCS	3	4.02	1.30	2.05	1.18	.12	.26	.47
AWPT-S4-U-PCS	4	4.72	1.57	2.36	1.18	.12	.26	.47
AWPT-S5-U-PCS	5	5.71	2.05	2.95	1.18	.12	.26	.47
AWPT-S6-U-PCS	6	7.01	2.60	3.54	1.18	.12	.26	.47



- Thread is 1/4 20 UNC
- Weld plate is phosphate treated carbon steel. For alternate finishes/materials replace -PCS in the above part numbers with the following codes: -UP unplated carbon steel, -ZN zinc-nickel plated carbon steel, -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.
- Match the group number of your weld plates with your clamp bodies for correct fit.

TWIN - METRIC DIMENSIONS IN MM

PART NO.	GROUP	(12	B	B	S	(1)	ØD
AWPT-S1-M-PCS	1	77	20	37	30	3	6.5	12
AWPT-S2-M-PCS	2	86	26	44	30	3	6.5	12
AWPT-S3-M-PCS	3	102	33	52	30	3	6.5	12
AWPT-S4-M-PCS	4	120	40	60	30	3	6.5	12
AWPT-S5-M-PCS	5	145	52	75	30	3	6.5	12
AWPT-S6-M-PCS	6	178	66	90	30	3	6.5	12

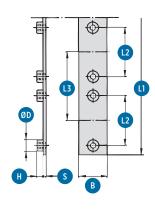
- Thread is 6mm Metric ISO
- Weld plate is phosphate treated carbon steel. For alternate finishes/materials replace -PCS in the above part numbers with the following codes: -UP unplated carbon steel, -ZN zinc-nickel plated carbon steel, -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.
- Match the group number of your weld plates with your clamp bodies for correct fit.



GROUP WELD PLATE



PART NO.	GROUP	(1)	12	(3)	B	S	H	ØD
AWPG-S1-U-PCS	1	14.69	0.79	1.46	1.18	.16	.26	.47
AWPG-S2-U-PCS	2	17.40	1.02	1.73	1.18	.16	.26	.47
AWPG-S3-U-PCS	3	20.51	1.30	2.05	1.18	.16	.26	.47
AWPG-S4-U-PCS	4	11.81	1.57	2.36	1.18	.16	.26	.47
AWPG-S5-U-PCS	5	14.88	2.05	2.95	1.18	.16	.26	.47
AWPG-S6-U-PCS	6	17.72	2.60	3.54	1.18	.16	.26	.47



- Thread is 1/4 20 UNC
- Weld plate is phosphate treated carbon steel. For alternate finishes/materials replace -PCS in the above part numbers with the following codes: -UP unplated carbon steel, -ZN zinc-nickel plated carbon steel, -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.
- Match the group number of your weld plates with your clamp bodies for correct fit.

GROUP - METRIC DIMENSIONS IN MM

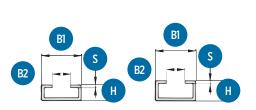
PART NO.	GROUP	(1)	12	B	B	S	H	ØD
AWPG-S1-M-PCS	1	373	20	37	30	4	6.5	12
AWPG-S2-M-PCS	2	442	26	44	30	4	6.5	12
AWPG-S3-M-PCS	3	521	33	52	30	4	6.5	12
AWPG-S4-M-PCS	4	300	40	60	30	4	6.5	12
AWPG-S5-M-PCS	5	378	52	75	30	4	6.5	12
AWPG-S6-M-PCS	6	450	66	90	30	4	6.5	12

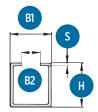
- Thread is 6mm Metric ISO
- Weld plate is phosphate treated carbon steel. For alternate finishes/materials replace -PCS in the above part numbers with the following codes: -UP unplated carbon steel, -ZN zinc-nickel plated carbon steel, -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.
- Match the group number of your weld plates with your clamp bodies for correct fit.

MOUNTING RAIL DIMENSIONS IN INCHES/MM

PART NO.	LENGTH	H	BI	B2	S
AMR-SR1-UP-2M	2 Meters	.43/11	1.1/28	.43/11	.08/2
AMR-SR1-UP-1M	1 Meter				
AMR-SR2-UP-2M	2 Meters	.55/14	1.1/28	.43/11	.08/2
AMR-SR2-UP-1M	1 Meter				
AMR-SR3-UP-2M	2 Meters	1.18/30	1.1/28	.43/11	.08/2
AMR-SR3-UP-1M	1 Meter				

- Mounting rail is unplated carbon steel. For alternate finishes/materials replace -UP in the above part numbers with the following codes: -ZN zinc-nickel plated carbon steel, -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.
- Compatible with all standard and twin clamp components from groups 1-8.

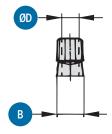






HEX RAIL NUT DIMENSIONS IN INCHES

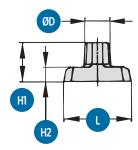
PART NO.	THREAD	0	B	HI	H2	ØD
AHRN-S-U-ZN	1/4-20 UNC	1.00	.40	.53	.22	.47

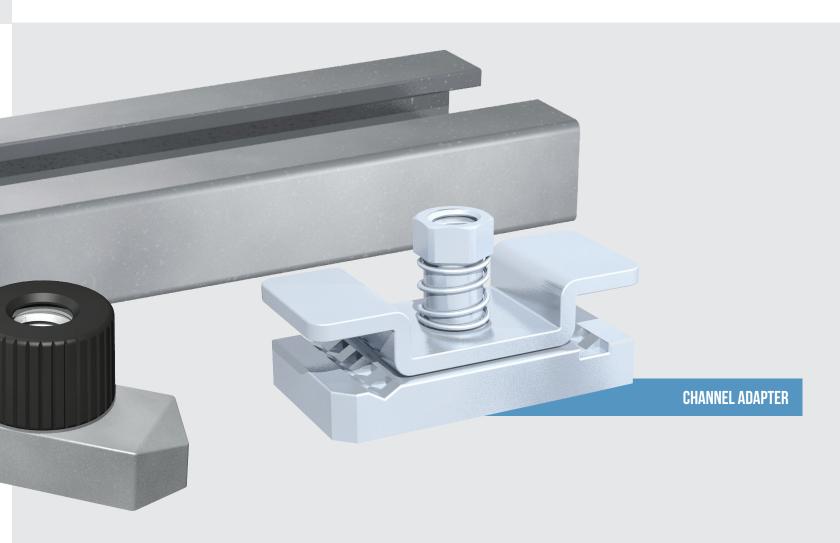


HEX RAIL NUT - METRIC DIMENSIONS IN MM

PART NO.	THREAD	0	B	HI	H2	ØD
AHRN-S-M-ZN	M6	25.5	10.2	13.5	5.5	12

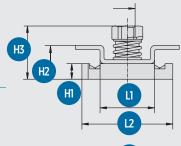
- Rail Nut is zinc-nickel plated carbon steel. For alternate finishes/materials replace -ZN in the above part numbers with the following codes: -UP unplated carbon steel, -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.
- Compatible with standard series Group 1 to 8 and Twin series Group 1





CHANNEL ADAPTER DIMENSIONS IN INCHES

PART NO.	THREAD	0	12	B	B1	B2	(1)	H2	H3	
ASCA-S-U-ZN	1/4-20 UNC	.83	1.38	1.57	.63	.75	.24	.51	.81	
ASCA-S-U-ZN	1/4-20 UNC	.83	1.38	1.57	.63	.75	.24	.51	.81	



CHANNEL ADAPTER - METRIC DIMENSIONS IN MM

PART NO.	THREAD	•	12	B	BI	B2	(1)	H2	H3	
ASCA-S-M-ZN	M6	21	35	40	16	19	6	13	20.5	

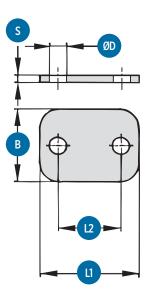
- Channel adapter is zinc-nickel plated carbon steel.
- For 316 stainless steel replace -ZN with -S6 in above part numbers. (Only available in zinc-nickel and 316ss)
- Compatible with standard series Group 1 to 8 and Twin series Group 1
- Adapter is for use with standard channel rails available elsewhere.

STANDARD COVER PLATE

COVER PLATE DIMENSIONS IN INCHES

PART NO.	GROUP	(1)	12	B	S	ØD
ACP-S1-ZN	1	1.34	.79	1.18	.12	.28
ACP-S2-ZN	2	1.59	1.02	1.18	.12	.28
ACP-S3-ZN	3	1.89	1.30	1.18	.12	.28
ACP-S4-ZN	4	2.24	1.57	1.18	.12	.28
ACP-S5-ZN	5	2.76	2.05	1.18	.12	.28
ACP-S6-ZN	6	3.39	2.60	1.18	.12	.28
ACP-S7-ZN	7	4.65	3.70	1.18	.20	.28
ACP-S8-ZN	8	5.67	4.72	1.18	.20	.28

• Cover Plate is zinc-nickel plated carbon steel. For alternate finishes/materials replace -ZN in the above part numbers with the following codes: -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.



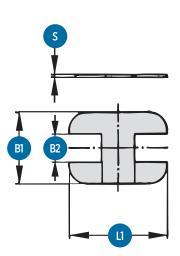
STANDARD STACKING PLATE

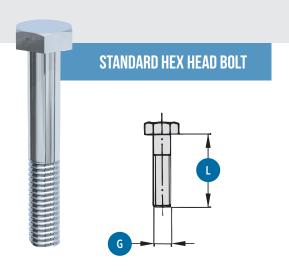
STACKING PLATE

DIM	ENSIO	NS IN	INCHES

PART NO.	GROUP	(1)	BI	B2	S
ASP-S1-ZN	1	1.30	1.10	44	.04
ASP-S2-ZN	2	1.54	1.10	.44	.04
ASP-S3-ZN	3	1.85	1.10	.44	.04
ASP-S4-ZN	4	2.20	1.10	.44	.04
ASP-S5-ZN	5	2.72	1.10	.44	.04
ASP-S6-ZN	6	3.35	1.10	.44	.04
ASP-S7-ZN	7	4.61	1.10	44	.04
ASP-S8-ZN	8	5.63	1.10	.44	.04

• Stacking Plate is zinc-nickel plated carbon steel. For alternate finishes/materials replace -ZN in the above part numbers with the following codes: -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.

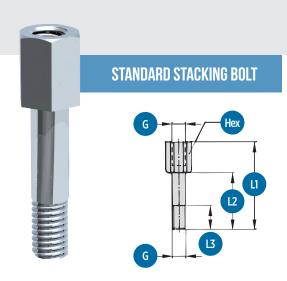




HEX HEAD BOLT

DIMENSIONS IN INCHES

PART NO.	GROUP	THREAD G	LENGTH
AHHB-S1-U-ZN	1	1/4-20 UNC	11/8
AHHB-S2-U-ZN	2	1/4-20 UNC	13/8
AHHB-S3-U-ZN	3	1/4-20 UNC	13/8
AHHB-S4-U-ZN	4	1/4-20 UNC	15/8
AHHB-S5-U-ZN	5	1/4-20 UNC	2 3/8
AHHB-S6-U-ZN	6	1/4-20 UNC	2 3/4
AHHB-S7-U-ZN	7	1/4-20 UNC	4
AHHB-S8-U-ZN	8	1/4-20 UNC	4 3/4



STACKING BOLT

DIMENSIONS IN INCHES

PART NO.	GROUP	THREAD G	(1)	12	B	HEX
ASB-S1-U-ZN	1	1/4-20 UNC	1.34	.79	.47	.43
ASB-S2-U-ZN	2	1/4-20 UNC	1.57	.98	.47	.43
ASB-S3-U-ZN	3	1/4-20 UNC	1.73	1.18	.47	.43
ASB-S4-U-ZN	4	1/4-20 UNC	1.93	1.38	.47	.43
ASB-S5-U-ZN	5	1/4-20 UNC	2.52	1.97	.47	.43
ASB-S6-U-ZN	6	1/4-20 UNC	2.91	2.36	.47	.43
ASB-S7-U-ZN	7	1/4-20 UNC	3.90	3.35	.47	.43
ASB-S8-U-ZN	8	1/4-20 UNC	4.88	4.33	.47	.43

HEX HEAD BOLT - METRIC

DIMENSIONS IN MM

PART NO.	GROUP	THREAD G	LENGTH
AHHB-S1-M-ZN	1	M6	27
AHHB-S2-M-ZN	2	M6	32
AHHB-S3-M-ZN	3	M6	35
AHHB-S4-M-ZN	4	M6	42
AHHB-S5-M-ZN	5	M6	57
AHHB-S6-M-ZN	6	M6	65
AHHB-S7-M-ZN	7	M6	95
AHHB-S8-M-ZN	8	M6	118

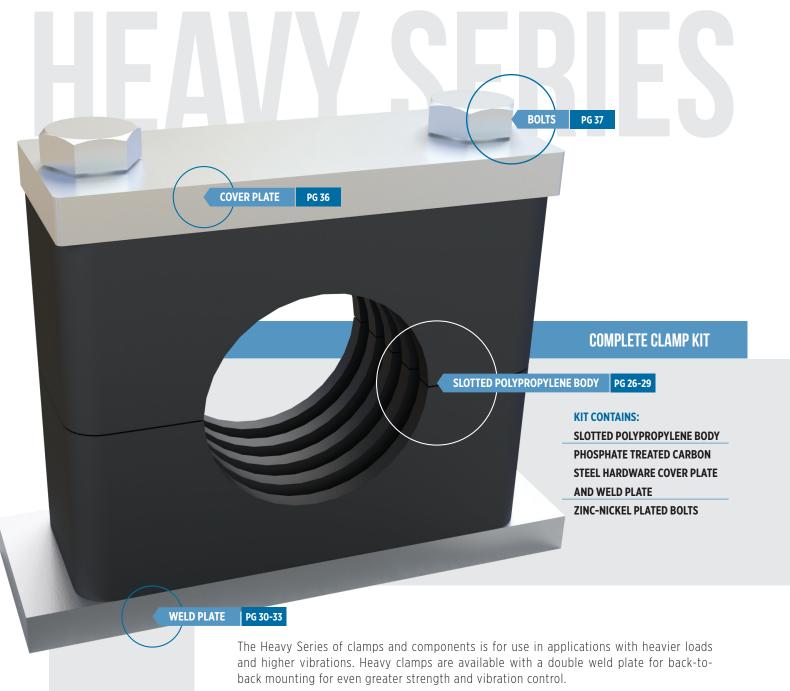
 Bolt is zinc-nickel plated carbon steel. For alternate finishes/materials replace -ZN in the above part numbers with the following codes: -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.

STACKING BOLT - METRIC

DIMENSIONS IN MM

PART NO.	GROUP	THREAD G	•	12	13	HEX
ASB-S1-M-ZN	1	M6	34	20	12	11
ASB-S2-M-ZN	2	M6	40	25	12	11
ASB-S3-M-ZN	3	M6	44	30	12	11
ASB-S4-M-ZN	4	M6	49	35	12	11
ASB-S5-M-ZN	5	M6	64	50	12	11
ASB-S6-M-ZN	6	M6	74	60	12	11
ASB-S7-M-ZN	7	M6	99	85	12	11
ASB-S8-M-ZN	8	M6	124	110	12	11

Bolt is zinc-nickel plated carbon steel. For alternate finishes/materials replace
 -ZN in the above part numbers with the following codes: -S4 304 stainless
 steel, -S6 316 stainless steel. Consult factory for availability.



Brennan's Heavy Series includes complete clamp kits (bodies plus hardware) and a full line of individual components, so you can assemble the configuration that best meets your needs.

Heavy Series clamp bodies are in polypropylene or polyamide and are available with slotted, smooth, or rubber insert profile. Heavy Series hardware includes phosphate treated steel weld plates and cover plates. Zinc-nickel and 304/316 stainless steel is also available. These choices allow you to select a configuration that is perfectly tailored to your application. *

Clamps are available in both imperial and metric sizes, according to groups. Please be sure to choose hardware and bodies from the same group for the best fit.

* Group 8: Finish is unplated steel, not available in zinc-nickel.



HEAVY SERIES: COMPLETE CLAMP KITS

- Everything you need in one package: clamp body, weld plate, cover plate and bolts with only one part number for simplified ordering.
- Stainless kits are also available, see below for ordering instructions.
- Kit bodies are in polypropylene with slotted profile only.

COMPLETE KIT

FOR TUBING APPLICATIONS

PART NO.	GROUP	OD (in.)
CT-H3-04-CS-A		1/4
CT-H3-06-CS-A	3	3/8
CT-H3-08-CS-A		1/2
CT-H3-10-CS-A		5/8
CT-H4-12-CS-A		3/4
CT-H4-14-CS-A	4	7/8
CT-H4-16-CS-A		1
CT-H5-20-CS-A	5	11/4
CT-H5-24-CS-A	,	1 1/2
CT-H6-28-CS-A		1 3/4
CT-H6-32-CS-A	6	2
CT-H6-36-CS-A	U	2 1/4
CT-H6-40-CS-A		2 1/2
CT-H7-44-CS-A	7	2 3/4
CT-H7-48-CS-A	,	3
CT-H8-56-UN-A	8	3 1/2
CT-H8-64-UN-A	•	4

 For alternate finishes/materials replace -CS/UN in the above part numbers with the following codes: -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.

COMPLETE KIT

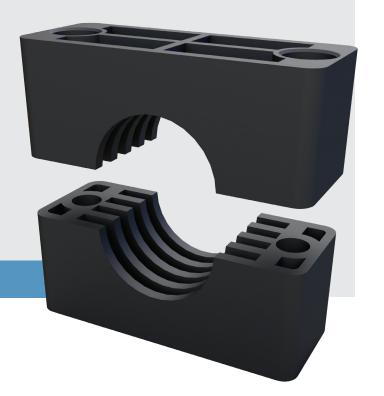
FOR PIPE APPLICATIONS

PART NO.	GROUP	NB* (in.)
CP-H3-04-CS-A	3	1/4
CP-H3-06-CS-A	,	3/8
CP-H4-08-CS-A	4	1/2
CP-H4-12-CS-A	4	3/4
CP-H5-16-CS-A	5	1
CP-H5-20-CS-A	3	1 1/4
CP-H6-24-CS-A		1 1/2
CP-H6-32-CS-A	6	2
CP-H7-40-CS-A	7	2 1/2
CP-H8-48-UN-A	8	3

- For alternate finishes/materials replace -CS/UN in the above part numbers with the following codes: -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.
- Nominal bore*

HEAVY CLAMP BODIES

- The Heavy Series is available with slotted, smooth or rubber insert profiles in sizes for tube, pipe and hose.
- Brennan slotted profile clamp bodies are a proven product for safe installation of rigid pipes and tubes.
 Available in common sizes, they have excellent vibration and noise reduction as well as weather resistance.



SLOTTED PROFILE

DI	D	F	
		_	DIMENSIONS IN INCHES

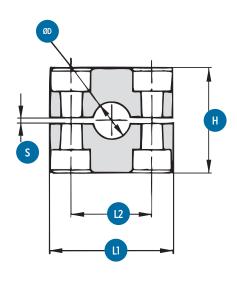
PART NO.	NB	GROUP	•	12	H	Smin	W
ACB-HP3-P04-PP	1/4	3	2.16	1.3	1.26	0.02	1.2
ACB-HP3-P06-PP	3/8	3					
ACB-HP4-P08-PP	1/2	4	2.76	1.77	1.89	0.02	1.2
ACB-HP4-P12-PP	3/4						
ACB-HP5-P16-PP	1	5	3.35	2.36	2.36	0.02	1.2
ACB-HP5-P20-PP	1 1/4						
ACB-HP6-P24-PP	11/2		4.53	3.54	3.5	0.08	1.77
ACB-HP6-P32-PP	2	6					
ACB-HP6-P40-PP	2 1/2						
ACB-HP7-P48-PP	3	7	6.06	4.8	4.72	0.08	2.36

- Standard clamp bodies are black polypropylene with slotted inside surface profile.
- For polyamide clamp bodies substitute -PA for -PP above (ACB-HP3-P04-PP becomes ACB-HP3-P04-PA)
- Nominal bore*



TUBE DIMENSIONS IN INCHES

PART NO.	ØD	GROUP	•	12	H	Smin	W
ACB-HP3-T04-PP	1/4		2.16	1.3	1.26	0.02	1.2
ACB-HP3-T06-PP	3/8	3					
ACB-HP3-T08-PP	1/2	•					
ACB-HP3-T10-PP	5/8						
ACB-HP4-T12-PP	3/4		2.76	1.77	1.89	0.02	1.2
ACB-HP4-T14-PP	7/8	4					
ACB-HP4-T16-PP	1						
ACB-HP5-T20-PP	1 1/4	5	3.35	2.36	2.36	0.02	1.2
ACB-HP5-T24-PP	11/2	,					
ACB-HP6-T28-PP	13/4		4.53	3.54	3.5	0.08	1.77
ACB-HP6-T32-PP	2	6					
ACB-HP6-T36-PP	2 1/4	ŭ					
ACB-HP6-T40-PP	2 1/2						
ACB-HP7-T44-PP	2 3/4	7	6.06	4.8	4.72	0.08	2.36
ACB-HP7-T48-PP	3	,					
ACB-HP8-T64-PP	4	8	8.11	6.61	6.61	0.08	3.15



TUBE - METRIC

DIM	EN	SIO	NS	IN	MM

PART NO.	ØD	GROUP	(1)	12	H	Smin	W
ACB-HP3-TM06-PP	6		55	33	32	0.6	30.5
ACB-HP3-TM08-PP	8						
ACB-HP3-TM10-PP	10						
ACB-HP3-TM12-PP	12	3					
ACB-HP3-TM14-PP	14						
ACB-HP3-TM15-PP	15						
ACB-HP3-TM16-PP	16						
ACB-HP3-TM18-PP	18						
ACB-HP4-TM19-PP	19		70	45	48	0.6	30.5
ACB-HP4-TM20-PP	20						
ACB-HP4-TM22-PP	22	4					
ACB-HP4-TM25-PP	25						
ACB-HP4-TM28-PP	28						
ACB-HP5-TM30-PP	30		85	60	60	0.6	30.5
ACB-HP5-TM32-PP	32						
ACB-HP5-TM35-PP	35	5					
ACB-HP5-TM38-PP	38						
ACB-HP5-TM40-PP	40						
ACB-HP6-TM42-PP	42	6	115	90	89	2	45

- Standard clamp bodies are black polypropylene with slotted inside surface profile.
- For polyamide clamp bodies substitute -PA for -PP above (ACB-HP3-TM06-PP becomes ACB-HP3-TM06-PA)

HEAVY CLAMP BODIES

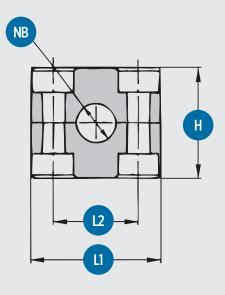
• Smooth profile clamp bodies are perfect for use with hoses and cables. They have chamfered edges to reduce wear and damage.



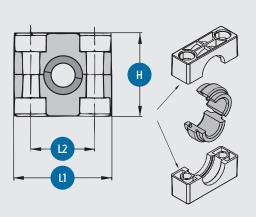
HOSE DIMENSIONS IN INCHES

PART NO.	NB°	GROUP	(1)	12	H	W	ØD
ACB-HS4-H04-PP	1/4		2.76	1.77	1.83	1.20	.59
ACB-HS4-H06-PP	3/8						.78
ACB-HS4-H08-PP	1/2	4					.87
ACB-HS4-H10-PP	5/8						.99
ACB-HS4-H12-PP	3/4						1.15
ACB-HS6-H16-PP	1		4.53	3.54	3.43	1.77	1.49
ACB-HS6-H20-PP	1 1/4	6					1.91
ACB-HS6-H24-PP	11/2						2.14

- Standard clamp bodies are black polypropylene with smooth inside surface profile.
- For polyamide clamp bodies substitute -PA for -PP above (ACB-HS3-H04-PP becomes ACB-HS3-H04-PA)
- Nominal Bore, Hydraulic hose SAE 100 R2 AT *









BODIES FOR INSERTS

PART NO.	GROUP	ØD	U	(12)	U	w
ACB-HRI4-PP	4	.98/25	2.76/70	1.77/45	4.83/46.5	1.20/30.5
ACB-HRI5-PP	5	1.50/38	3.35/85	2.36/60	2.28/58	1.20/30.5
ACB-HRI6-PP	6	2.52/64	4.53/115	3.54/90	3.43/87	1.77/45
ACB-HRI7-PP	7	3.56/88	6.06/154	4.80/122	4.72/120	2.36/60
ACB-HRI8-PP	8	4.49/114	8.11/208	6.61/168	6.61/168	3.15/80

- Clamp bodies are black polypropylene profiled for use with rubber inserts.
- Match the group number of your clamp bodies with your rubber inserts for correct fit.

• For the ultimate in noise isolation or for the most protective installation of delicate hoses or cables use Brennan clamp bodies with soft rubber inserts.

RUBBER INSERTS DIMENSIONS IN INCHES/MM

PART NO.	ØD IN	ØD MM	GROUP	
ARI-H4-M06		6		
ARI-H4-M08	5/16	8		
ARI-H4-M10		10		
ARI-H4-M12		12		
ARI-H4-M12.7	1/2	12,7		
ARI-H4-M14		14	4	
ARI-H4-M15		15		
ARI-H4-M16	5/8	16		
ARI-H4-M17.2		17,2		
ARI-H4-M18		18		
ARI-H4-M19	3/4	19		
ARI-H5-M20		20		
ARI-H5-M21.3		21,3		
ARI-H5-M22	7/8	22		
ARI-H5-M25		25	5	
ARI-H5-M26.9		26,9		
ARI-H5-M28		28		
ARI-H5-M30		30		

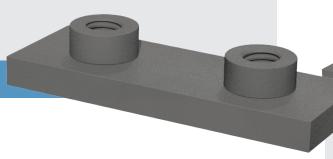
PART NO.	ØD IN	ØD MM	GROUP	
ARI-H6-M32	1-1/4	32		
ARI-H6-M33.7		33,7		
ARI-H6-M35		35		
ARI-H6-M38.7		38,7		
ARI-H6-M40		40	6	
ARI-H6-M42		42		
ARI-H6-M45.5		45,5		
ARI-H6-M48		48		
ARI-H6-M51	2	51		
ARI-H7-M55		55		
ARI-H7-M57	2-1/4	57		
ARI-H7-M60		60		
ARI-H7-M63.5	2-1/2	63,5	7	
ARI-H7-M65		65	,	
ARI-H7-M70	2-3/4	70		
ARI-H7-M72		72		
ARI-H7-M76	3	76		
ARI-H8-M80		80		
ARI-H8-M88.9	3-1/2	88,9	8	
ARI-H8-M102		102		

- Inserts are black thermoplastic elastomer.
- Match the group number of your clamp bodies with your inserts for correct fit.

HEAVY WELD PLATES

SINGLE AND DOUBLE





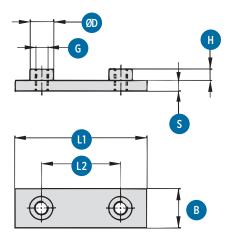
SINGLE DIMENSIONS IN INCHES

PART NO.	GROUP	(1)	12	B	S	H	THREAD G	ØD
AWP-H3-U-PCS	3	2.91	1.30	1.18	.31	.31	3/8-16 UNC	.71
AWP-H4-U-PCS	4	3.39	1.77	1.18	.31	.31	3/8-16 UNC	.71
AWP-H5-U-PCS	5	3.94	2.36	1.18	.31	.31	3/8-16 UNC	.71
AWP-H6-U-PCS	6	5.51	3.54	1.77	.39	.31	7/16-14 UNC	.78
AWP-H7-U-PCS	7	7.09	4.80	2.36	.39	.47	5/8-11 UNC	.94
AWP-H8-U-UP	8	8.90	6.61	3.15	.59	.71	3/4-10 UNC	1.18

SINGLE - METRIC DIMENSIONS IN MM

PART NO.	GROUP	(1)	12	B	S	H	THREAD G	ØD
AWP-H3-M-PCS	3	74	33	30	8	8	M10	18
AWP-H4-M-PCS	4	86	45	30	8	8	M10	18
AWP-H5-M-PCS	5	100	60	30	8	8	M10	18
AWP-H6-M-PCS	6	140	90	45	10	8	M12	20
AWP-H7-M-PCS	7	180	122	60	10	12	M16	24
AWP-H8-M-UP	8	226	168	80	15	18	M20	30

- Weld plate is phosphate treated carbon steel (Group 8 = unplated). For alternate finishes/materials replace -PCS/UP in the above part numbers with the following codes: -ZN zinc-nickel (not available for group 8), -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.
- Match the group number of your weld plates with your clamp bodies for correct fit.





DOUBLE HEAVY WELD PLATE

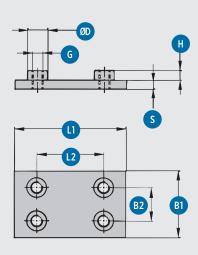
DOUBLE DIMENSIONS IN INCHES

PART NO.	GROUP	(1)	(12)	B1	B2	S	H	THREAD G	ØD
AWPD-H3-U-PCS	3	2.91	1.30	2.36	1.20	.31	.31	3/8-16 UNC	.71
AWPD-H4-U-PCS	4	3.39	1.77	2.36	1.20	.31	.31	3/8-16 UNC	.71
AWPD-H5-U-PCS	5	3.94	2.36	2.36	1.20	.31	.31	3/8-16 UNC	.71
AWPD-H6-U-PCS	6	5.51	3.54	3.54	1.81	.39	.31	7/16-14 UNC	.78
AWPD-H7-U-PCS	7	7.09	4.80	4.72	2.40	.39	.47	5/8-11 UNC	.94
AWPD-H8-U-UP	8	8.90	6.61	6.61	3.19	.59	.71	3/4-10 UNC	1.18

DOUBLE - METRIC DIMENSIONS IN MM

PART NO.	GROUP	(1)	12	BI	B2	5	H	THREAD G	ØD
AWPD-H3-M-PCS	3	74	33	60	30.5	8	8	M10	18
AWPD-H4-M-PCS	4	86	45	60	30.5	8	8	M10	18
AWPD-H5-M-PCS	5	100	60	60	30.5	8	8	M10	18
AWPD-H6-M-PCS	6	140	90	90	46	10	8	M12	20
AWPD-H7-M-PCS	7	180	122	120	61	10	12	M16	24
AWPD-H8-M-UP	8	226	168	160	81	15	18	M20	30

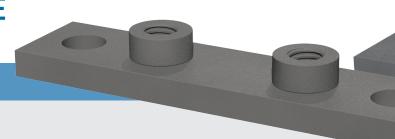
- Weld plate is phosphate treated carbon steel (Group 8 = unplated). For alternate finishes/materials replace -PCS/UP in the above part numbers with the following codes: -ZN zinc-nickel (not available for group 8), -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.
- Match the group number of your weld plates with your clamp bodies for correct fit.



HEAVY WELD PLATES

ELONGATED AND ELONGATED DOUBLE





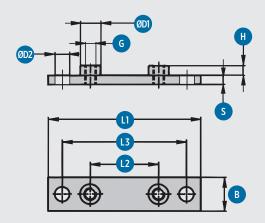
ELONGATED DIMENSIONS IN INCHES

PART NO.	GROUP	(1)	12	L 3	B	5	H	THREAD G	ØDI	ØD2
AWPE-H3-U-PCS	3	4.45	1.30	3.35	1.18	.31	.31	3/8-16 UNC	.71	.51
AWPE-H4-U-PCS	4	4.92	1.77	3.82	1.18	.31	.31	3/8-16 UNC	.71	.51
AWPE-H5-U-PCS	5	5.51	2.36	4.41	1.18	.31	.31	3/8-16 UNC	.71	.51
AWPE-H6-U-PCS	6	7.36	3.54	6.10	1.77	.39	.31	7/16-14 UNC	.78	.62
AWPE-H7-U-PCS	7	9.37	4.80	7.80	2.36	.39	.47	5/8-11 UNC	.94	.83
AWPE-H8-U-UP	8	12.17	6.61	10.20	3.15	.59	.71	3/4-10 UNC	1.18	1.02

ELONGATED - METRIC DIMENSIONS IN MM

PART NO.	GROUP	(1)	12	B	B	5	H	THREAD G	ØDI	ØD2
AWPE-H3-M-PCS	3	113	33	85	30	8	8	M10	18	13
AWPE-H4-M-PCS	4	125	45	97	30	8	8	M10	18	13
AWPE-H5-M-PCS	5	140	60	112	30	8	8	M10	18	13
AWPE-H6-M-PCS	6	187	90	155	45	10	8	M12	20	16
AWPE-H7-M-PCS	7	238	122	198	60	10	12	M16	24	21
AWPE-H8-M-UP	8	309	168	259	80	15	18	M20	30	26

- Weld plate is phosphate treated carbon steel (Group 8 = unplated). For alternate finishes/materials replace -PCS/UP in the above part numbers with the following codes: -ZN zinc-nickel (not available for group 8), -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.
- Match the group number of your weld plates with your clamp bodies for correct fit.







ELONGATED DOUBLE HEAVY WELD PLATE

ELONGATED DOUBLE DO

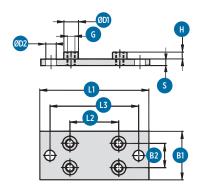
IMENSION	SINII	NCHES
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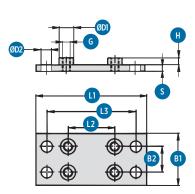
PART NO.	GROUP	(1)	12	I 3	B1	B2	S	H	THREAD G	ØDI	ØD2
AWPDE-H3-U-PCS	3	4.45	1.30	3.35	2.36	1.20	.31	.31	3/8-16 UNC	.71	.51
AWPDE-H4-U-PCS	4	4.92	1.77	3.82	2.36	1.20	.31	.31	3/8-16 UNC	.71	.51
AWPDE-H5-U-PCS	5	5.51	2.36	4.41	2.36	1.20	.31	.31	3/8-16 UNC	.71	.51
AWPDE-H6-U-PCS	6	7.36	3.54	6.10	3.54	1.81	.39	.31	7/16-14 UNC	.78	.62
AWPDE-H7-U-PCS	7	9.37	4.80	7.80	4.72	2.40	.39	.47	5/8-11 UNC	.94	.83
AWPDE-H8-U-UP	8	12.17	6.61	10.20	6.61	3.19	.59	.71	3/4-10 UNC	1.18	1.02

ELONGATED DOUBLE - METRIC DIMENSIONS IN MM

PART NO.	GROUP	(1)	12	13	BI	B2	S	H	THREAD G	ØDI	ØD2
AWPDE-H3-M-PCS	3	113	33	85	60	30,5	8	8	M10	18	13
AWPDE-H4-M-PCS	4	125	45	97	60	30,5	8	8	M10	18	13
AWPDE-H5-M-PCS	5	140	60	112	60	30,5	8	8	M10	18	13
AWPDE-H6-M-PCS	6	187	90	155	90	46	10	8	M12	20	16
AWPDE-H7-M-PCS	7	238	122	198	120	61	10	12	M16	24	21
AWPDE-H8-M-UP	8	309	168	259	160	81	15	18	M20	30	26

- Weld plate is phosphate treated carbon steel (Group 8 = unplated). For alternate finishes/ materials replace -PCS/UP in the above part numbers with the following codes: -ZN zincnickel (not available for group 8), -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.
- Match the group number of your weld plates with your clamp bodies for correct fit.





MOUNTING RAIL

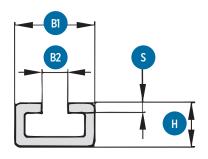
DIMENSIONS IN INCHES/MM

PARTNUMBER	LENGTH	BI	B2	H	S	
AMR-HR1-UP-2M	2 Meters	1.57/40	.39/13	.86/22	.19/5	
AMR-HR1-UP-1M	1 Meter	1.57/40	.39/13	.86/22	.19/5	

 Mounting Rail is unplated carbon steel. For alternate finishes/materials replace -UP in the above part numbers with the following codes: -ZN zinc-nickel plated carbon steel, -S6 316 stainless steel. Consult factory for availability.



HEAVY MOUNTING RAIL



RAL NUT DIMENSIONS IN INCHES

PART NO.	GROUP	THREAD	ØD1	ØD2	HI	H2	H3	
AHRN-H345-U-ZN	3,4,5	3/8-16 UNC	.70	.94	.83	.30	.29	
AHRN-H6-U-7N	6	7/16-14 UNC	78	94	91	35	32	

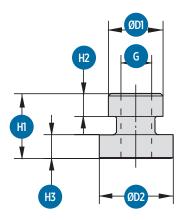
RAIL NUT - METRIC DIMENSIONS IN MM

AHRN-H6-M-ZN

PART NO.	GROUP	THREAD	ØDI	ØD2	H	H2	
AHRN-H345-M-ZN	3,4,5	M10	17.8	24	21	7.6	

M12

• Rail Nut is zinc-nickel plated carbon steel. For alternate finishes/materials replace -ZN in the
above part numbers with the following codes: -S4 304 stainless steel, -S6 316 stainless steel.
Consult factory for availability.





19.8

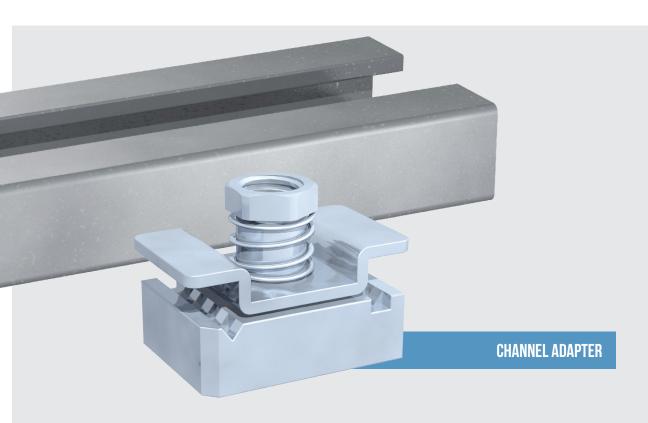
7.4

8.2

23

8.8

24

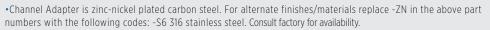


CHANNEL ADAPTER DIMENSIONS IN INCHES

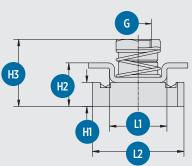
PART NO.	GROUP	THREAD	0	12	B	BI	B2	(II)	H2	H3	
ASCA-H345-U-ZN	3,4,5	3/8-16 UNC	.87	1.38	1.50	.87	.81	.36	.66	1.08	
ASCA-H6-U-ZN	6	7/16-14 UNC	.85	1.38	1.77	.98	.75	.36	.60	1.08	

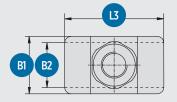
CHANNEL ADAPTER - METRIC DIMENSIONS IN MM

PART NO.	GROUP	THREAD	(1)	12	B	BI	B2	(II)	H2	H3	
ASCA-H345-M-ZN	3,4,5	M10	22	35	38	22	20.5	9.2	16.7	27.5	
ASCA-H6-M-ZN	6	M12	21,5	35	45	25	19	9.2	16.7	27.5	



[•] Adapter is for use with standard channel rails available elsewhere.

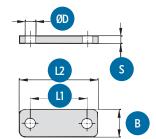




COVER PLATE DIMENSIONS IN INCHES

PART NO.	GROUP	(1)	12	B	S	ØD
ACP-H3-PCS	3	2.16	1.30	1.18	.31	.43
ACP-H4-PCS	4	2.76	1.77	1.18	.31	.43
ACP-H5-PCS	5	3.35	2.36	1.18	.31	.43
ACP-H6-PCS	6	4.53	3.54	1.77	.39	.55
ACP-H7-PCS	7	5.98	4.80	2.36	.39	.75
ACP-H8-UP	8	8.11	6.61	3.15	.59	.87

• Cover Plate is phosphate treated carbon steel (Group 8 = unplated). For alternate finishes/ materials replace -PCS/UP in the above part numbers with the following codes: -ZN zinc-nickel (not available for group 8), -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.

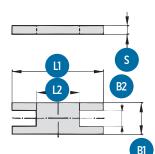


HEAVY COVER PLATE

STACKING PLATE DIMENSIONS IN INCHES

PART NO.	GROUP	(1)	12	BI	B2	S
ASP-H3-PCS	3	2.24	.51	1.18	.60	.31
ASP-H4-PCS	4	2.76	1.02	1.18	.60	.31
ASP-H5-PCS	5	3.35	1.57	1.18	.60	.31
ASP-H6-PCS	6	4.57	2.68	1.77	.68	.39
ASP-H7-PCS	7	6.02	3.78	2.36	.87	.39
ASP-H8-UP	8	8.11	5.12	3.15	1.10	.59

• Stacking Plate is phosphate treated carbon steel (Group 8 = unplated). For alternate finishes/materials replace -PCS/ UP in the above part numbers with the following codes: -ZN zinc-nickel (not available for group 8), -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.



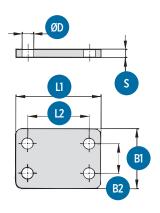
HEAVY STACKING PLATE

DOUBLE CLAMP

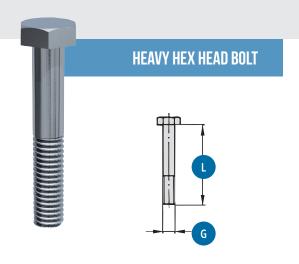
COVER PLATE, DOUBLE CLAMP DIMENSIONS IN INCHES

PART NO.	GROUP	(1)	12	BI	B2	S	ØD
ACPD-H3-PCS	3	2.16	1.30	2.36	1.20	.31	.43
ACPD-H4-PCS	4	2.76	1.77	2.36	1.20	.31	.43
ACPD-H5-PCS	5	3.35	2.36	2.36	1.20	.31	.43
ACPD-H6-PCS	6	4.53	3.54	3.54	1.81	.39	.55
ACPD-H7-PCS	7	5.98	4.80	4.72	2.40	.39	.75
ACPD-H8-UP	8	8.11	6.61	6.61	3.19	.59	.87

• Cover Plate iis phosphate treated carbon steel (Group 8 = unplated). For alternate finishes/materials replace -PCS/UP in the above part numbers with the following codes: -ZN zinc-nickel (not available for group 8), -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.







HEAVY STACKING BOLT T SW 12 13

HEX HEAD BOLT

DIMENSIONS IN INCHES

PART NO.	GROUP	THREAD	LENGTH
AHHB-H3-U-ZN	3	3/8-16 UNC	13/4
AHHB-H4-U-ZN	4	3/8-16 UNC	2 1/4
AHHB-H5-U-ZN	5	3/8-16 UNC	2 3/4
AHHB-H6-U-ZN	6	7/16-14 UNC	4
AHHB-H7-U-ZN	7	5/8-11 UNC	5 1/4
AHHB-H8-U-UP	8	3/4-10 UNC	7 1/2

STACKING BOLT

DIMENSIONS IN INCHES

PART NO.	GROUP	(1)	12	13	HEX min	THREAD
ASB-H3-U-ZN	3	1.93	.98	.59	.59	3/8-16 UNC
ASB-H4-U-ZN	4	2.56	1.57	.59	.59	3/8-16 UNC
ASB-H5-U-ZN	5	3.03	2.01	.59	.59	3/8-16 UNC
ASB-H6-U-ZN	6	4.33	3.23	.71	.67	7/16-14 UNC
ASB-H7-U-ZN	7	5.67	4.33	.94	.83	5/8-11 UNC
ASB-H8-U-UP	8	7.87	5.91	1.18	1.06	3/4-10 UNC

HEX HEAD BOLT - METRIC

DIMENSIONS IN MM

PART NO.	GROUP	THREAD	LENGTH
AHHB-H3-M-ZN	3	M10	45
AHHB-H4-M-ZN	4	M10	60
AHHB-H5-M-ZN	5	M10	70
AHHB-H6-M-ZN	6	M12	100
AHHB-H7-M-ZN	7	M16	130
AHHB-H8-M-UP	8	M20	190

STACKING BOLT - METRIC

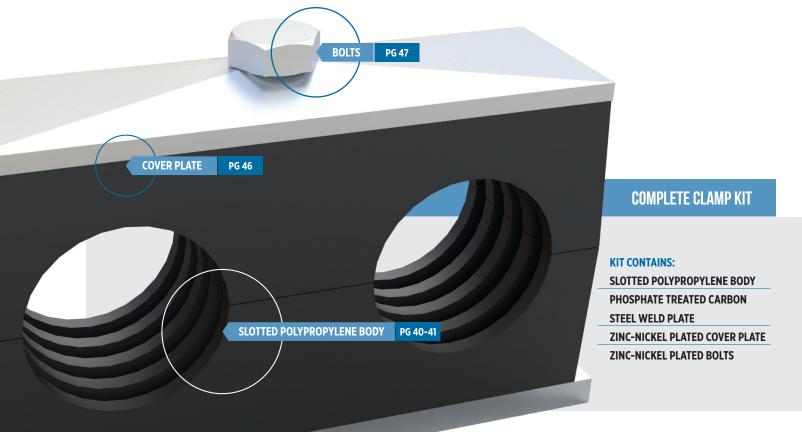
DIMENSIONS IN MM

PART NO.	GROUP	(1)	12	13	(HEX) min	THREAD
ASB-H3-M-ZN	3	49	25	15	15	M10
ASB-H4-M-ZN	4	65	40	15	15	M10
ASB-H5-M-ZN	5	77	51	15	15	M10
ASB-H6-M-ZN	6	110	82	18	17	M12
ASB-H7-M-ZN	7	144	110	24	21	M16
ASB-H8-M-UP	8	200	150	30	27	M20

Bolt is zinc-nickel plated carbon steel (Group 8 = unplated). For alternate finishes/materials replace -PCS/UP in the above part numbers with the following codes: -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.

Bolt is zinc-nickel plated carbon steel (Group 8 = unplated). For alternate finishes/materials replace -PCS/UP in the above part numbers with the following codes: -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.

TWIN SERIES



WELD PLATE PG 42-43

The Twin Series is ideal for applications with multiple lines needing to be run closely together. Bodies are in polypropylene or polyamide and available in slotted and smooth profiles. Twin Series hardware is available in unplated, phosphate treated, or zinc-nickel plated steel, and 304/316 stainless steel. These choices allow you to select a configuration that is perfectly tailored to your application.

Brennan's Twin Series includes complete clamp kits (bodies plus hardware) and a full line of individual components, so you can assemble the configuration that best meets your needs.

Clamps are available in both imperial and metric sizes, according to groups. Please be sure to choose hardware and bodies from the same group for the best fit.

TWIN SERIES: COMPLETE CLAMP KITS

- Everything you need in one package: clamp body, weld plate, cover plate and bolts with only one part number for simplified ordering.
- Stainless kits are also available, see below for ordering instructions.
- Kit bodies are in polypropylene with slotted profile only.

COMPLETE KIT

FOR TUBING APPLICATIONS

PART NO.	GROUP	OD (in.)
CT-T1-04-CS-A	1	1/4
CT-T1-06-CS-A		3/8
CT-T2-08-CS-A	2	1/2
CT-T2-10-CS-A	2	5/8
CT-T3-12-CS-A		3/4
CT-T3-14-CS-A	3	7/8
CT-T3-16-CS-A		1
CT-T5-20-CS-A	5	1 1/4
CT-T5-24-CS-A		1 1/2

- Kit contains: slotted polypropylene body, phosphate treated carbon steel weld plate, zinc-plated cover plate and bolt.
- For alternate finishes/materials replace -CS in the above part numbers with the following codes: -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.

COMPLETE KIT

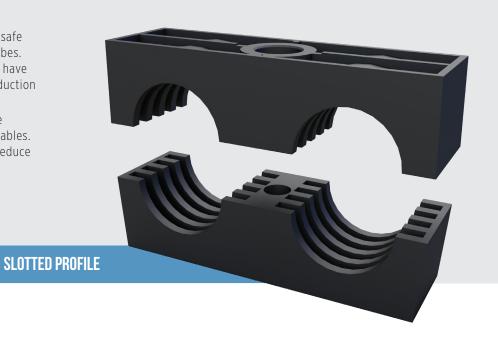
FOR PIPE APPLICATIONS

PART NO.	GROUP	NB* (in.)
CP-T2-04-CS-A		1/4
CP-T2-06-CS-A	2	3/8
CP-T3-08-CS-A	3	1/2
CP-T4-12-CS-A	4	3/4
CP-T5-16-CS-A	5	1
CP-T5-20-CS-A	,	1 1/4

- Kit contains: slotted polypropylene body, phosphate treated carbon steel weld plate, zinc-nickel plated cover plate and bolt.
- For alternate finishes/materials replace -CS in the above part numbers with the following codes: -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.
- Nominal bore*

TWIN CLAMP BODIES

- The twin series is available with slotted or smooth profiles in sizes for tube, pipe and hose.
- Brennan slotted profile clamp bodies are a proven product for safe installation of rigid pipes and tubes.
 Available in common sizes, they have excellent vibration and noise reduction as well as weather resistance.
- Smooth profile clamp bodies are perfect for use with hoses and cables.
 They have chamfered edges to reduce wear and damage.



PIPE DIMENSIONS IN INCHES

PART NO.	NB*	GROUP	(1)	12	H	Smin	W
ACB-TP2-P04-PP	1/4	2	2.09	1.14	1.06	0.03	1.18
ACB-TP2-P06-PP	3/8						
ACB-TP3-P08-PP	1/2	3	2.64	1.42	1.46	0.03	1.18
ACB-TP4-P12-PP	3/4	4	3.15	1.77	1.57	0.03	1.18
ACB-TP5-P16-PP	1	5	4.17	2.2	2.09	0.03	1.18
ACB-TP5-P20-PP	1 1/4	,					

TUBE DIMENSIONS IN INCHES

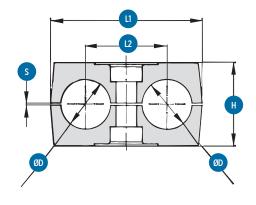
PART NO.	ØD	GROUP	(1)	12	H	Smin	W
ACB-TP1-T04-PP	1/4	1	1.42	0.79	1.06	0.02	1.18
ACB-TP1-T06-PP	3/8						
ACB-TP2-T08-PP	1/2	2	2.09	1.14	1.06	0.03	1.18
ACB-TP2-T10-PP	5/8						
ACB-TP3-T12-PP	3/4		2.64	1.42	1.46	0.03	1.18
ACB-TP3-T14-PP	7/8	3					
ACB-TP3-T16-PP	1						
ACB-TP5-T20-PP	1 1/4	5	4.17	2.2	2.09	0.03	1.18
ACB-TP5-T24-PP	11/2	,					

- Nominal Bore *
- Standard clamp bodies are black Polypropylene with slotted inside surface profile.
- For polyamide clamp bodies substitute -PA for -PP above (ACB-TP1-T04-PP becomes ACB-TP1-T04-PA)



TUBE - METRIC DIMENSIONS IN MM

PART NO.	ØD	GROUP	1	12	H	Smin	W
ACB-TP1-TM06-PP	6		36	20	27	0,6	30
ACB-TP1-TM08-PP	8	1					
ACB-TP1-TM10-PP	10	•					
ACB-TP1-TM12-PP	12						
ACB-TP2-TM14-PP	14		53	29	27	0,7	30
ACB-TP2-TM15-PP	15	2					
ACB-TP2-TM18-PP	18						
ACB-TP3-TM20-PP	20		67	36	37	0,7	30
ACB-TP3-TM22-PP	22	3					
ACB-TP3-TM25-PP	25						
ACB-TP4-TM28-PP	28	4	80	45	40	0,7	30
ACB-TP4-TM30-PP	30	4					
ACB-TP5-TM35-PP	35		106	56	53	0,7	30
ACB-TP5-TM40-PP	40	5					
ACB-TP5-TM42-PP	42						



SMOOTH PROFILE



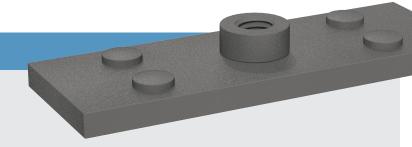
PART NO.	ØD	GROUP	•	12	H	w
ACB-TS1-H04-PP	1/4		1.42	.79	1.06	1.18
ACB-TS1-H05-PP	5/16	1				
ACB-TS1-H06-PP	3/8					
ACB-TS2-H08-PP	1/2	2	2.09	1.14	1.06	1.18
ACB-TS2-H10-PP	5/8					
ACB-TS3-H12-PP	3/4	3	2.64	1.42	1.46	1.18
ACB-TS3-H16-PP	1	3				
ACB-TS5-H20-PP	11/4	5	4.17	2.20	2.09	1.18
ACB-TS5-H24-PP	11/2	,				

- Standard clamp bodies are black Polypropylene with smooth inside
- For polyamide clamp bodies substitute -PA for -PP above (ACB-TS1-H04-PP becomes ACB-TS1-H04-PA)

TWIN WELD PLATES

SINGLE AND GROUP

TWIN SINGLE WELD PLATE



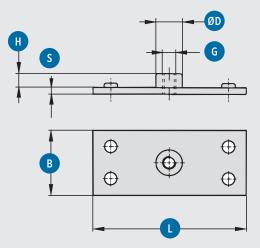
SINGLE DIMENSIONS IN INCHES

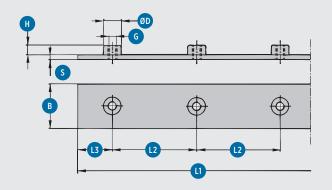
PART NO.	GROUP	0	B	S	H	ØD	THREAD G
AWP-T1-U-PCS	1	1.46	1.18	.12	.26	.47	1/4-20 UNC
AWP-T2-U-PCS	2	2.17	1.18	.20	.24	.55	5/16-18 UNC
AWP-T3-U-PCS	3	2.76	1.18	.20	.24	.55	5/16-18 UNC
AWP-T4-U-PCS	4	3.35	1.18	.20	.24	.55	5/16-18 UNC
AWP-T5-U-PCS	5	4.33	1.18	.20	.24	.55	5/16-18 UNC

SINGLE - METRIC DIMENSIONS

PART NO.	GROUP	0	B	5	H	ØD	THREAD G
AWP-T1-M-PCS	1	37	30	3	6,5	12	M6
AWP-T2-M-PCS	2	55	30	5	6	14	M8
AWP-T3-M-PCS	3	70	30	5	6	14	M8
AWP-T4-M-PCS	4	85	30	5	6	14	M8
AWP-T5-M-PCS	5	110	30	5	6	14	M8

- Weld plate is phosphate treated carbon steel. For alternate finishes/ materials replace -PCS in the above part numbers with the following codes: -UP unplated carbon steel, -ZN zinc-nickel plated carbon steel, -S4 304 stainless steel, -S6 316 stainless steel. Consult factory
- Match the group number of your weld plates with your clamp bodies for correct fit.







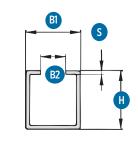
GROUP DIMENSIONS IN INCHES

PART NO.	GROUP	(1)	12	L 3	B	S	H	ØD	THREAD G
AWPG-T1-U-PCS	1	7.72	1.57	.71	1.18	.12	.26	.47	1/4-20 UNC
AWPG-T2-U-PCS	2	11.34	2.28	1.10	1.18	.20	.24	.55	5/16-18 UNC
AWPG-T3-U-PCS	3	14.09	2.83	1.37	1.18	.20	.24	.55	5/16-18 UNC
AWPG-T4-U-PCS	4	17.52	3.54	1.65	1.18	.20	.24	.55	5/16-18 UNC
AWPG-T5-U-PCS	5	21.97	4.41	2.16	1.18	.20	.24	.55	5/16-18 UNC

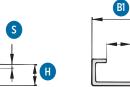
GROUP - METRIC DIMENSIONS IN INCHES

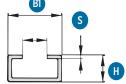
PART NO.	GROUP	(1)	12	13	B	S	H	ØD	THREAD G	
AWPG-T1-M-PCS	1	196	40	18	30	3	6,5	12	M6	
AWPG-T2-M-PCS	2	288	58	28	30	5	6	14	M8	
AWPG-T3-M-PCS	3	358	72	35	30	5	6	14	M8	
AWPG-T4-M-PCS	4	445	90	42	30	5	6	14	M8	
AWPG-T5-M-PCS	5	558	112	55	30	5	6	14	M8	

- Weld plate is phosphate treated carbon steel. For alternate finishes/materials replace
- -PCS in the above part numbers with the following codes: -UP unplated carbon steel,
- -ZN zinc-nickel plated carbon steel, -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.
- Match the group number of your weld plates with your clamp bodies for correct fit.



MOUNTING RAIL







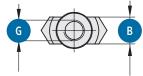
	IIAI
DIMENSIONS IN INCHES/MM	

PARI NO.	LENGIH				
AMR-SR1-UP-2M	2 Meters	.43/11	1.1/28	.43/11	.08/2
AMR-SR1-UP-1M	1 Meter				
AMR-SR2-UP-2M	2 Meters	.55/14	1.1/28	.43/11	.08/2
AMR-SR2-UP-1M	1 Meter				
AMR-SR3-UP-2M	2 Meters	1.18/30	1.1/28	.43/11	.08/2
AMR-SR3-UP-1M	1 Meter				

- Mounting rail is unplated carbon steel. For alternate finishes/materials replace -UP in the above part numbers with the following codes: -ZN zinc-nickel plated carbon steel, -S4 $\,$ 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.
- Compatible with all standard and twin clamp components from groups 1-8.

RAIL NUT DIMENSIONS IN INCHES

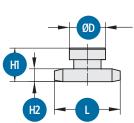
PART NO.	GROUP	THREAD G		B	HI	H2	ØD	
AHRN-S-U-ZN	1	1/4-20 UNC	1.00	.40	.53	.22	.47	
AHRN-T2345-U-ZN	2,3,4,5	5/16-18 UNC	1.00	.41	.51	.20	.55	

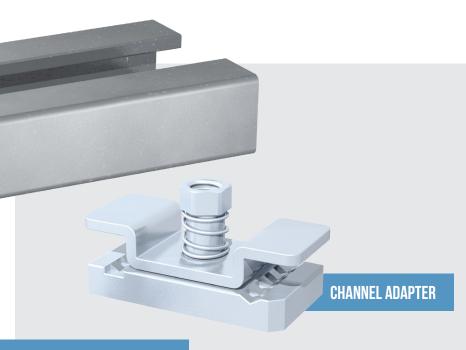


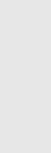
RAIL NUT - METRIC DIMENSIONS IN MM

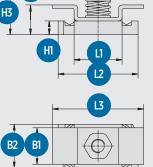
PART NO.	GROUP	THREAD G	D	B	HI	H2	ØD	
AHRN-S-M-ZN	1	M6	25.5	10.2	13.5	5.5	12	
AHRN-T2345-M-ZN	2,3,4,5	M8	25.5	10.4	13	5	14	

• Rail Nut is zinc-nickel plated carbon steel. For alternate finishes/materials replace -ZN in the above part numbers with the following codes: -S4 304 stainless steel, -S6 316 stainless steel, -UP unplated carbon steel. Consult factory for availability.

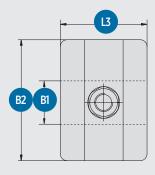








TWIN RAIL NUT



CHANNEL ADAPTER DIMENSIONS IN INCHES

PART NO.	GROUP	THREAD	0	12	B	BI	B2	(II)	H2	H3	
ASCA-T23-U-ZN	2,3	5/16-18 UNC	.83	1.38	1.50	2.09	.75	.35	.67	.93	
ASCA-T45-U-ZN	4.5	5/16-18 UNC	.83	1.38	1.50	3.15	.75	.3	.67	.93	

CHANNEL ADAPTER - METRIC DIMENSIONS IN MM

PART NO.	GROUP	THREAD	(1)	12	B	BI	B2	(1)	H2	H3	
ASCA-T23-M-ZN	2,3	M8	21	35	38	53	19	9	17	23.5	
ASCA-T45-M-ZN	4,5	M8	21	35	38	80	19	9	17	23.5	

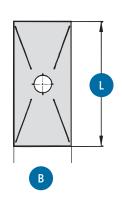
- Channel Adapter is zinc-nickel plated carbon steel. For alternate finishes/materials replace -ZN in the above part numbers with the following codes: -S6 316 stainless steel. Consult factory for availability.
- Adapter is for use with standard channel rails available elsewhere.

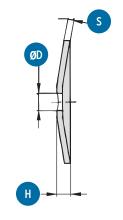
TWIN COVER PLATE

COVER PLATE DIMENSIONS IN INCHES

PART NO.	GROUP	•	B	H	S	ØD
ACP-T1-ZN	1	1.34	1.18	.28	.12	.28
ACP-T2-ZN	2	2.05	1.18	.28	.12	.35
ACP-T3-ZN	3	2.56	1.18	.28	.12	.35
ACP-T4-ZN	4	3.11	1.18	.28	.12	.35
ACP-T5-ZN	5	4.02	1.18	.28	.12	.35

• Cover Plate is zinc-nickel plated carbon steel. For alternate finishes/materials replace -ZN in the above part numbers with the following codes: -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.



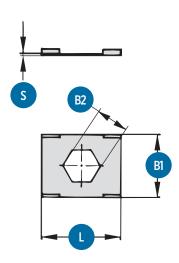




STACKING PLATE

PART NO.	GROUP	0	BI	B2	S
ASP-T1-ZN	1	1.06	.86	.44	.02
ASP-T2345-ZN	2,3,4,5	1.06	.86	.48	.02

• Stacking Plate is zinc-nickel plated carbon steel. For alternate finishes/materials replace -ZN in the above part numbers with the following codes: -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.



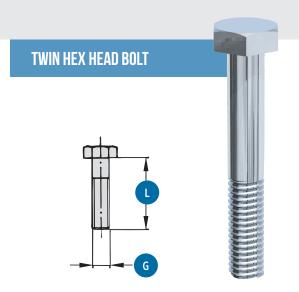
HEX HEAD BOLT

PART NO.	GROUP	THREAD	LENGTH
AHHB-T1-U-ZN	1	1/4-20 UNC	13/8
AHHB-T2-U-ZN	2	5/16-18 UNC	13/8
AHHB-T3-U-ZN	3	5/16-18 UNC	13/4
AHHB-T4-U-ZN	4	5/16-18 UNC	2
AHHB-T5-U-ZN	5	5/16-18 UNC	2 1/2

HEX HEAD BOLT - METRIC

DIMENSIONS IN MM

PART NO.	GROUP	THREAD	LENGTH
AHHB-T1-M-ZN	1	M6	35
AHHB-T2-M-ZN	2	M8	35
AHHB-T3-M-ZN	3	M8	45
AHHB-T4-M-ZN	4	M8	50
AHHB-T5-M-ZN	5	M8	60



• Bolt is zinc-nickel plated carbon steel. For alternate finishes/ materials replace -ZN in the above part numbers with the following codes: -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.

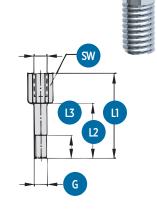
TWIN STACKING BOLT

STACKING BOLT DIMENSIONS IN INCHES

PART NO.	GROUP	THREAD	(1)	12	13 min	HEX
ASB-T1-U-ZN	1	1/4-20 UNC	1.33	.78	.47	.43
ASB-T2-U-ZN	2	5/16-18 UNC	1.30	.78	.47	.47
ASB-T3-U-ZN	3	5/16-18 UNC	1.73	1.14	.47	.47
ASB-T4-U-ZN	4	5/16-18 UNC	1.92	1.33	.47	.47
ASB-T5-U-ZN	5	5/16-18 UNC	2.40	1.81	.47	.47

STACKING BOLT - METRIC DIMENSIONS IN MM

PART NO.	GROUP	(1)	12	B	(HEX) min	THREAD
ASB-T1-M-ZN	1	M6	34	20	12	11
ASB-T2-M-ZN	2	M8	33	20	12	12
ASB-T3-M-ZN	3	M8	44	29	12	12
ASB-T4-M-ZN	4	M8	49	34	12	12
ASB-T5-M-ZN	5	M8	61	46	12	12



• Bolt is zinc-nickel plated carbon steel. For alternate finishes/materials replace -ZN in the above part numbers with the following codes: -S4 304 stainless steel, -S6 316 stainless steel. Consult factory for availability.

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