



ENGINEERED RIVETING, SWAGING & AUTOMOTIVE FASTENING SYSTEMS

HYDRASPEED FASTENER PRODUCT CATALOGUE

AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED



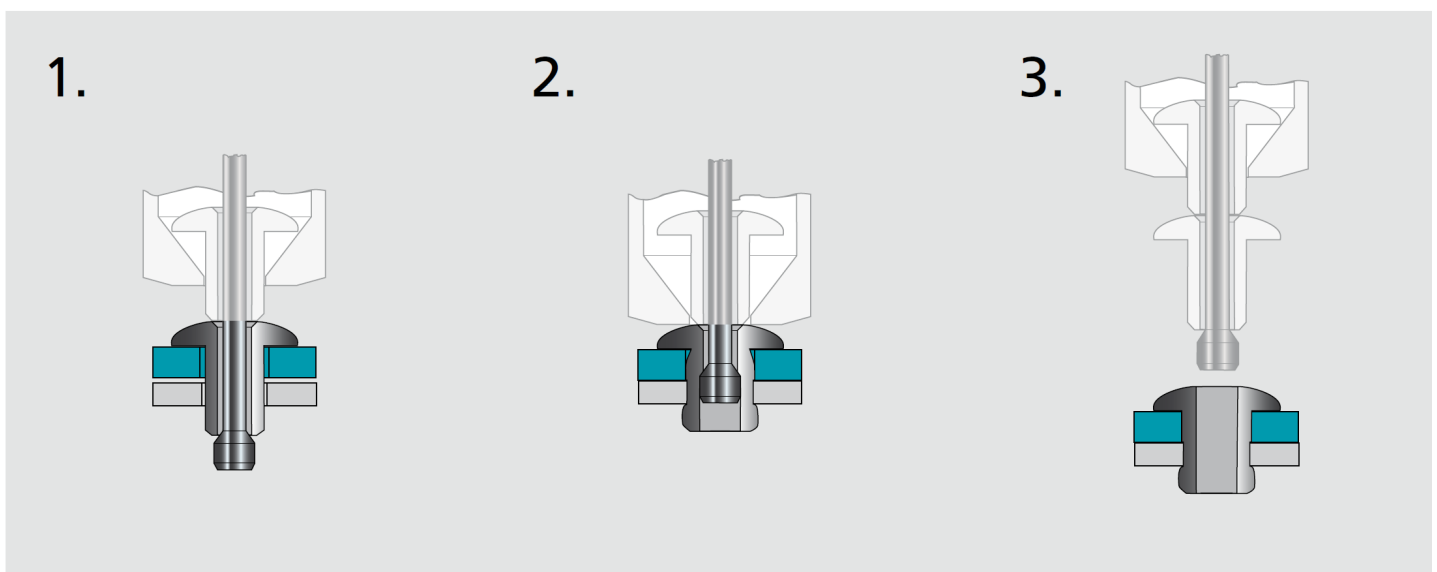
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Introduction

Avlock International fastening Systems (South Africa) are the world's leading manufacturers and suppliers of a variety of specialty fasteners and fastener installation equipment. We are headquartered in South Africa and operate two factories in Boksburg where breakstem rivets and a range of smaller diameter bolts and specialized fasteners are manufactured & have now setup a JV company in India, Avlock International India Pvt Ltd to further strengthen our Indian Presence. Our fasteners have a wide range of applications in the Heavy and Light engineering Industries.

Hydraspeed Fasteners:

Hydraspeed Blind fasteners are used for high speed installation from one side of the work piece. With a installation speed of less than two seconds per fastener, it results in increasing assembly speed and lowering costs. They are widely used in domestic appliances, electronics, light fabrication and automotive industry. Hydraspeed Fasteners requires special installation equipments and a typical installation sequence is shown below.



Sr.No.	Description		Pg.No.
1		The Hytronic rivet has annular grooves along its body which expand radially during insertion. This provides a vibration resistant joint and good pull out resistance.	4-5
2		Hydraspeed-B is a Speed Fastening System having a bulbed tail providing consistent high clamp and shear, making it ideal for assembling many materials including metal, plastic and aluminum alloy	6-14
3		Hydraspeed-C is a Speed Fastening System which provides consistent controlled clamp, ideal for soft or brittle materials. The light clamp of the Hydraspeed-C rivet makes it ideal for use as a pivot pin or hose tail.	15-24
4		Hydraspeed-R is a Speed Fastening System having a threaded, removable speed fastener that combines the speed of rivet placement with the benefits of being able to remove and re-fasten.	25-27
5		Hysert is a Speed Fastening System has a threaded stand-off pillar for PCBs. The internal threads allows for a threaded part to be inserted. The Avsert Speed Fastening system is available in a variety of stand-off heights to suit your individual needs and will fit an array of board thicknesses.	28-29
6		Hylug is a Speed Fastening System is an easy to solder post designed for use in terminals and for wire wrapping. The Hylug rivets rolled shank ensures secure placement in the PCB. Available in diameters as small as 1.6mm giving this rivet a wide variety of applications.	30-31



Hytronic

Product Description & Features

Hytronic is a blind Speed Fastening System designed as an assembly solution for attaching connectors and components to PCBs. The Hytronic rivet has annular grooves along its body which expand radially during insertion. This provides a vibration resistant joint and good pull out resistance.

Key features and benefits

- Annular grooves on the body expand radially during installation
- Provide a vibration resistant joint, increased pull-out resistance and good residual clamp
- Various body lengths provide a wide grip range to accommodate most combinations of connector and PC board thickness
- Ideal tack rivet
- Can be used in blind hole applications

Assembly materials

Hytronic can be used to fasten:

- Metal to metal
- Metal to plastic

Assembly applications

- DIN and other connectors
- Heat sinks
- Card ejectors
- Brackets and stiffener bars

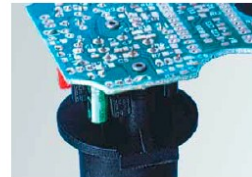
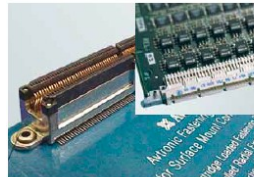
Specifications

- Sizes: 2.5mm and 2.8mm
- Materials: brass and aluminium alloy
- Head forms: Dome

Installation Equipment

- The pictures below shows Avlock installation equipment which can be use to place Hytronic fasteners

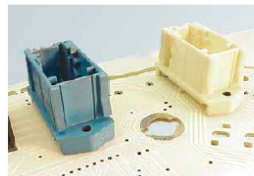
Surface mounted connectors to PCBs



DIN 41612 male edge connector



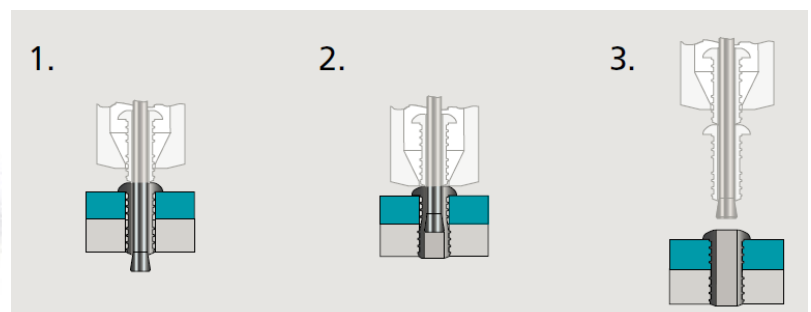
Automotive vertical mounted connectors



Traffic light reflector and contact point



Typical placing sequence



Technical Data Sheet

Hytronic - ATB9

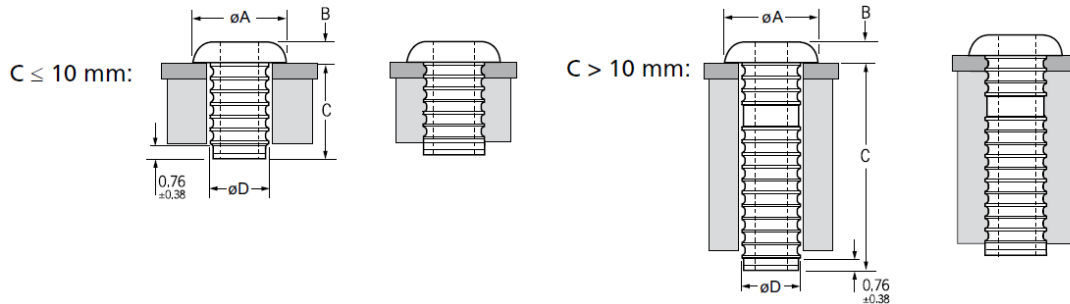
MATERIAL

HEAD TYPE: DOME HEAD

BODY: BRASS

FINISH

BODY: ELECTRO TIN PLATED



All Dimension are in millimeters

Part Number	Size	Hole Size		A		B	C	D		Push out (KN)
		Min	Max	Min	Max	Max	Max	Min	Max	
ATB9-12505T	2.50	2.50	2.60	3.80	4.20	1.00	5.20	2.31	2.47	0.045
ATB9-12507T	2.50	2.50	2.60	3.80	4.20	1.00	6.80	2.31	2.47	0.045
ATB9-12508T	2.50	2.50	2.60	3.80	4.20	1.00	8.40	2.31	2.47	0.045
ATB9-12510T	2.50	2.50	2.60	3.80	4.20	1.00	10.00	2.31	2.47	0.045
ATB9-12511T	2.50	2.50	2.60	3.80	4.20	1.00	11.50	2.31	2.47	0.045
ATB9-12513T	2.50	2.50	2.60	3.80	4.20	1.00	13.10	2.31	2.47	0.045
ATB9-12515T	2.50	2.50	2.60	3.80	4.20	1.00	14.70	2.31	2.47	0.045
ATB9-12516T	2.50	2.50	2.60	3.80	4.20	1.00	16.30	2.31	2.47	0.045
ATB9-12518T	2.50	2.50	2.60	3.80	4.20	1.00	17.90	2.31	2.47	0.045
ATB9-12805T	2.80	2.80	2.90	3.80	4.20	1.00	5.20	2.58	2.74	0.067
ATB9-12807T	2.80	2.80	2.90	3.80	4.20	1.00	6.80	2.58	2.74	0.067
ATB9-12808T	2.80	2.80	2.90	3.80	4.20	1.00	8.40	2.58	2.74	0.067
ATB9-12810T	2.80	2.80	2.90	3.80	4.20	1.00	10.00	2.58	2.74	0.067
ATB9-12811T	2.80	2.80	2.90	3.80	4.20	1.00	11.50	2.58	2.74	0.067
ATB9-12813T	2.80	2.80	2.90	3.80	4.20	1.00	13.10	2.58	2.74	0.067
ATB9-12815T	2.80	2.80	2.90	3.80	4.20	1.00	14.70	2.58	2.74	0.067
ATB9-12816T	2.80	2.80	2.90	3.80	4.20	1.00	16.30	2.58	2.74	0.067
ATB9-12818T	2.80	2.80	2.90	3.80	4.20	1.00	17.90	2.58	2.74	0.067

Part Number Call and Explanation	
PART NUMBER EXAMPLE – AT - B9 - 1 - 25 - 05 - T	
AT	HYTRONIC
B9	BRASS
1	HEAD TYPE DOME HEAD
25	SIZE 2.5 MM
05	LENGTH C
T	FINISH ELECTRO TIN PLATED

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Hydraspeed - B

Product Description & Features

Hydraspeed-B is a blind Speed Fastening System having a bulbed tail providing consistent high clamp and shear, making it ideal for assembling many materials including metal, plastic and aluminum alloy. With easy installation and lower in-place costs than welding or nail rivet, this speed riveting system is extensively used for light fabrication needs

Key features and benefits

- Bulbed tail and foreshortening of the fastener during installation ensures high clamp
- Bulbed tail and large head form provide a large bearing area for soft materials
- Tapered tail for ease of hole entry
- Expands radially during installation to ensure maximum hole fill
- Lower in-place costs than welding or nail rivets
- Hot tin dipped brass option for ease of soldering and good electrical continuity
- Stainless Steel option for applications subject to high temperatures or corrosion
- Placed using a unique repetition mandrel system for high speed assembly
- Can be bowl fed for larger volume applications using automated equipment

Assembly materials

- Hydraspeed-B can be used to fasten:
- Metal to metal
- Metal to plastic

Assembly applications

- Automotive
- Electronic components
- Sheet metal
- Electrical engineering
- Domestic appliances
- Furniture
- General light fabrication

Vacuum pump for diesel engines



Domestic heating systems



Office furniture



Computer cabinet



Automotive plastic connector to moulded chassis



Automotive stereo speaker

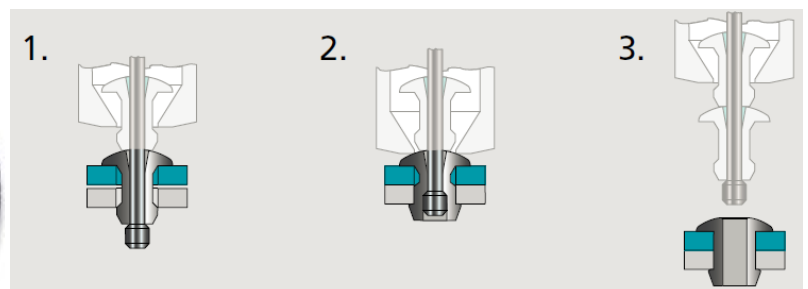


Specifications

- Sizes: 2.4mm (3/32") to 6.0mm
- Materials: Aluminum alloy, steel, stainless steel and brass
- Head forms: Dome/mushroom, countersunk

Installation Equipment

- The pictures below shows Avlock installation equipment which can be use to place Hydraspeed-B fasteners



Technical Data Sheet

Hydraspeed - BRA5

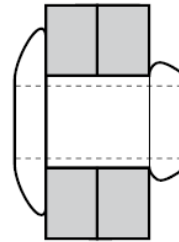
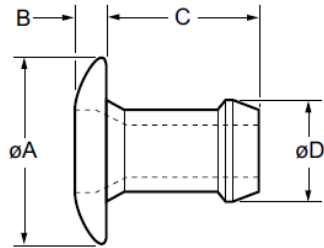
MATERIAL

HEAD TYPE: DOME HEAD

BODY: ALUMINIUM ALLOY (5% Mg)

FINISH

BODY: NATURAL



All Dimension are in millimeters

Part Number	Size	Hole Size		Grip Range		A	B	C	D	Shear	Tensile
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	KN	KN
BRA5-12404N	2.40	2.36	2.44	1.14	2.42	4.10	0.90	4.00	2.30	0.20	0.40
BRA5-12405N	2.40	2.36	2.44	2.15	3.43	4.10	0.90	5.00	2.30	0.20	0.40
BRA5-12406N	2.40	2.36	2.44	3.17	4.45	4.10	0.90	6.00	2.30	0.20	0.40
BRA5-12407N	2.40	2.36	2.44	4.19	5.47	4.10	0.90	7.00	2.30	0.20	0.40
BRA5-12408N	2.40	2.36	2.44	5.20	6.48	4.10	0.90	8.10	2.30	0.20	0.40
BRA5-12409N	2.40	2.36	2.44	6.22	7.50	4.10	0.90	9.10	2.30	0.20	0.40
BRA5-12410N	2.40	2.36	2.44	7.24	8.51	4.10	0.90	10.10	2.30	0.20	0.40
BRA5-12411N	2.40	2.36	2.44	7.75	9.02	4.10	0.90	10.60	2.30	0.20	0.40
BRA5-13204N	3.20	3.26	3.24	1.14	2.42	6.60	1.00	4.40	3.20	0.80	1.30
BRA5-13205N	3.20	3.26	3.24	2.15	3.43	6.60	1.00	5.40	3.20	0.80	1.30
BRA5-13206N	3.20	3.26	3.24	3.17	4.45	6.60	1.00	6.40	3.20	0.80	1.30
BRA5-13207N	3.20	3.26	3.24	4.19	5.47	6.60	1.00	7.40	3.20	0.80	1.30
BRA5-13208N	3.20	3.26	3.24	5.20	6.48	6.60	1.00	8.40	3.20	0.80	1.30
BRA5-13209N	3.20	3.26	3.24	6.22	7.50	6.60	1.00	9.50	3.20	0.80	1.30

Part Number Call and Explanation

PART NUMBER EXAMPLE – BR - A5 - 1 - 24 - 04 - N

BR	HYDRASPEED - B
A5	ALUMINIUM ALLOY 5 % Mg
1	HEAD TYPE DOME HEAD
24	SIZE 2.4 MM
04	LENGTH C
N	FINISH NATURAL

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Technical Data Sheet

Hydraspeed - BRA5

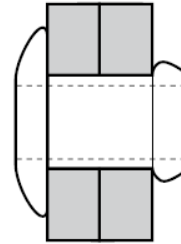
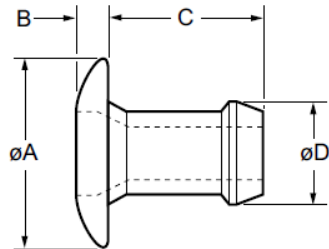
MATERIAL

HEAD TYPE: DOME HEAD

BODY: ALUMINIUM ALLOY (5% Mg)

FINISH

BODY: NATURAL



All Dimension are in millimeters

Part Number	Size	Hole Size		Grip Range		A	B	C	D	Shear	Tensile
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	KN	KN
BRA5-14005N	4.00	3.97	4.04	1.57	2.93	8.20	1.00	4.90	3.90	1.10	1.70
BRA5-14006N	4.00	3.97	4.04	2.66	3.94	8.20	1.00	5.90	3.90	1.10	1.70
BRA5-14007N	4.00	3.97	4.04	3.68	4.96	8.20	1.00	6.90	3.90	1.10	1.70
BRA5-14008N	4.00	3.97	4.04	4.69	5.97	8.20	1.00	8.00	3.90	1.10	1.70
BRA5-14009N	4.00	3.97	4.04	5.71	6.99	8.20	1.00	9.00	3.90	1.10	1.70
BRA5-14806N	4.80	4.85	4.95	2.03	3.94	9.70	1.20	6.10	4.80	1.50	2.70
BRA5-14807N	4.80	4.85	4.95	3.68	5.21	9.70	1.20	7.40	4.80	1.50	2.70
BRA5-14809N	4.80	4.85	4.95	4.95	6.48	9.70	1.20	8.60	4.80	1.50	2.70
BRA5-14810N	4.80	4.85	4.95	6.22	7.75	9.70	1.20	9.90	4.80	1.50	2.70
BRA5-14811N	4.80	4.85	4.95	7.49	9.02	9.70	1.20	11.20	4.80	1.50	2.70
BRA5-14812N	4.80	4.85	4.95	8.76	10.29	9.70	1.20	12.50	4.80	1.50	2.70
BRA5-14813N	4.80	4.85	4.95	10.03	11.56	9.70	1.20	13.50	4.80	1.50	2.70
BRA5-16007N	6.00	5.90	5.99	2.66	3.94	11.60	1.40	7.00	5.90	1.70	3.30
BRA5-16008N	6.00	5.90	5.99	3.68	4.95	11.60	1.40	8.00	5.90	1.70	3.30
BRA5-16009N	6.00	5.90	5.99	4.70	5.96	11.60	1.40	9.00	5.90	1.70	3.30
BRA5-16010N	6.00	5.90	5.99	5.71	6.98	11.60	1.40	10.00	5.90	1.70	3.30
BRA5-16011N	6.00	5.90	5.99	6.73	7.99	11.60	1.40	11.00	5.90	1.70	3.30
BRA5-16012N	6.00	5.90	5.99	7.74	9.01	11.60	1.40	12.00	5.90	1.70	3.30

Part Number Call and Explanation

PART NUMBER EXAMPLE – BR - A5 - 1 - 40 - 05 - N

BR	HYDRASPEED - B
A5	ALUMINIUM ALLOY 5 % Mg
1	HEAD TYPE DOME HEAD
40	SIZE 4.0 MM
05	LENGTH C
N	FINISH NATURAL

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Technical Data Sheet

Hydraspeed - BRA5

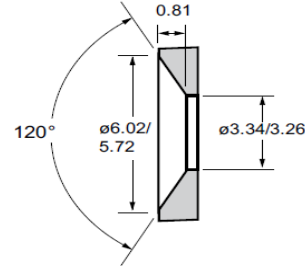
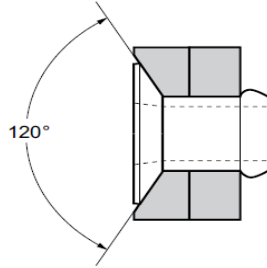
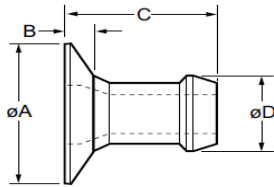
MATERIAL

HEAD TYPE: COUNTER SUNK

BODY: ALUMINIUM ALLOY (5% Mg)

FINISH

BODY: NATURAL



All Dimension are in millimeters

Part Number	Size	Hole Size		Grip Range		A	B	C	D	Shear	Tensile
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	KN	KN
BRA5-23205N	3.20	3.26	3.34	1.52	2.79	6.00	0.90	4.80	3.20	0.70	1.20
BRA5-23206N	3.20	3.26	3.34	2.54	3.81	6.00	0.90	5.80	3.20	0.70	1.20
BRA5-23207N	3.20	3.26	3.34	3.56	4.83	6.00	0.90	6.80	3.20	0.70	1.20
BRA5-23208N	3.20	3.26	3.34	4.57	5.84	6.00	0.90	7.80	3.20	0.70	1.20
BRA5-23209N	3.20	3.26	3.34	5.59	6.86	6.00	0.90	8.80	3.20	0.70	1.20

Part Number Call and Explanation	
PART NUMBER EXAMPLE – BR - A5 - 2 - 32 - 05 - N	
BR	HYDRASPEED - B
A5	ALUMINIUM ALLOY 5 % Mg
2	HEAD TYPE COUNTERSUNK
32	SIZE 3.2 MM
05	LENGTH C
N	FINISH NATURAL

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Technical Data Sheet

Hydraspeed - BRA2

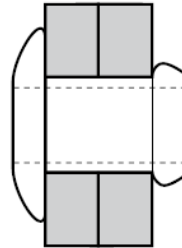
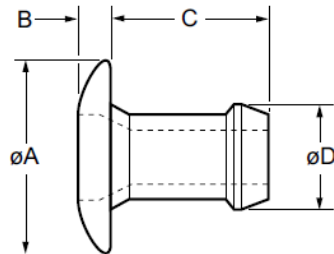
MATERIAL

HEAD TYPE: DOME HEAD

BODY: ALUMINIUM ALLOY (2.5% Mg)

FINISH

BODY: NATURAL



All Dimension are in millimeters

Part Number	Size	Hole Size		Grip Range		A	B	C	D	Shear	Tensile
		Min..	Max..	Min.	Max.	Max.	Max.	Max.	Max.	KN	KN
BRA2-13204N	3.20	3.26	3.34	1.14	2.42	6.60	1.00	4.40	3.20	0.40	0.80
BRA2-13205N	3.20	3.26	3.34	2.15	3.43	6.60	1.00	5.40	3.20	0.40	0.80
BRA2-13206N	3.20	3.26	3.34	3.17	4.45	6.60	1.00	6.40	3.20	0.40	0.80
BRA2-13207N	3.20	3.26	3.34	4.19	5.47	6.60	1.00	7.40	3.20	0.40	0.80
BRA2-13208N	3.20	3.26	3.34	5.20	6.48	6.60	1.00	8.40	3.20	0.40	0.80
BRA2-13209N	3.20	3.26	3.34	6.22	7.50	6.60	1.00	9.50	3.20	0.40	0.80
BRA2-14005N	4.00	3.97	4.04	1.57	2.93	8.20	1.00	4.90	3.90	0.70	0.90
BRA2-14006N	4.00	3.97	4.04	2.66	3.94	8.20	1.00	5.90	3.90	0.70	0.90
BRA2-14007N	4.00	3.97	4.04	3.68	4.96	8.20	1.00	6.90	3.90	0.70	0.90
BRA2-14008N	4.00	3.97	4.04	4.69	5.97	8.20	1.00	8.00	3.90	0.70	0.90
BRA2-14009N	4.00	3.97	4.04	5.71	6.99	8.20	1.00	9.00	3.90	0.70	0.90
BRA2-14806N	4.80	4.85	4.93	2.03	3.94	9.70	1.20	6.10	4.80	1.00	1.50
BRA2-14807N	4.80	4.85	4.93	3.68	5.21	9.70	1.20	7.40	4.80	1.00	1.50
BRA2-14809N	4.80	4.85	4.93	4.95	6.48	9.70	1.20	8.60	4.80	1.00	1.50
BRA2-14810N	4.80	4.85	4.93	6.22	7.75	9.70	1.20	9.90	4.80	1.00	1.50
BRA2-14811N	4.80	4.85	4.93	7.49	9.02	9.70	1.20	11.20	4.80	1.00	1.50
BRA2-14812N	4.80	4.85	4.93	8.76	10.29	9.70	1.20	12.50	4.80	1.00	1.50
BRA2-14813N	4.80	4.85	4.93	10.03	11.56	9.70	1.20	13.50	4.80	1.00	1.50

Part Number Call and Explanation

PART NUMBER EXAMPLE – BR - A2 - 1 - 32 - 04 - N

BR	HYDRASPEED - B
A2	ALUMINIUM ALLOY 2.5 % Mg
1	HEAD TYPE DOME HEAD
32	SIZE 3.2 MM
04	LENGTH C
N	FINISH NATURAL

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Technical Data Sheet

Hydraspeed - BRS4

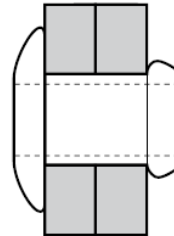
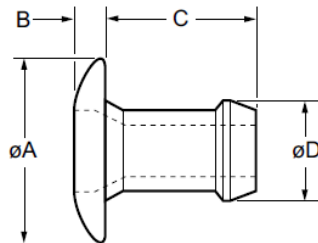
MATERIAL

HEAD TYPE: DOME HEAD

BODY: LOW CARBON STEEL

FINISH

BODY: ZINC PLATED



All Dimension are in millimeters

Part Number	Size	Hole Size		Grip Range		A	B	C	D	Shear	Tensile
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	KN	KN
BRS4-13204G	3.20	3.26	3.34	1.14	2.42	6.60	1.00	4.40	3.16	1.10	1.80
BRS4-13205G	3.20	3.26	3.34	2.15	3.43	6.60	1.00	5.40	3.16	1.10	1.80
BRS4-13206G	3.20	3.26	3.34	3.17	4.45	6.60	1.00	6.40	3.90	1.10	1.80
BRS4-13207G	3.20	3.26	3.34	4.19	5.47	6.60	1.00	7.40	3.90	1.10	1.80
BRS4-13208G	3.20	3.26	3.34	5.20	6.48	6.60	1.00	8.40	3.90	1.10	1.80
BRS4-13209G	3.20	3.26	3.34	6.22	7.50	6.60	1.00	9.50	3.90	1.10	1.80
BRS4-14004G	4.00	3.97	4.05	1.57	2.93	8.20	1.00	4.90	3.90	1.60	2.80
BRS4-14005G	4.00	3.97	4.05	2.15	3.43	8.20	1.00	5.40	3.90	1.60	2.80
BRS4-14006G	4.00	3.97	4.05	2.66	3.94	8.20	1.00	5.90	3.90	1.60	2.80
BRS4-14007G	4.00	3.97	4.05	3.68	4.96	8.20	1.00	6.90	3.90	1.60	2.80
BRS4-14008G	4.00	3.97	4.05	4.69	5.97	8.20	1.00	8.00	3.90	1.60	2.80
BRS4-14009G	4.00	3.97	4.05	5.71	6.99	8.20	1.00	9.00	3.90	1.60	2.80
BRS4-14805G	4.80	4.85	4.93	1.65	3.30	9.70	1.20	5.40	4.80	2.20	3.70
BRS4-14806G	4.80	4.85	4.93	2.03	3.94	9.70	1.20	6.10	4.80	2.20	3.70
BRS4-14807G	4.80	4.85	4.93	3.68	5.21	9.70	1.20	7.40	4.80	2.20	3.70
BRS4-14809G	4.80	4.85	4.93	4.95	6.48	9.70	1.20	8.60	4.80	2.20	3.70
BRS4-14810G	4.80	4.85	4.93	6.22	7.75	9.70	1.20	9.90	4.80	2.20	3.70
BRS4-14811G	4.80	4.85	4.93	7.49	9.02	9.70	1.20	11.20	4.80	2.20	3.70
BRS4-14812G	4.80	4.85	4.93	8.76	10.29	9.70	1.20	12.50	4.80	2.20	3.70
BRS4-16007G	6.00	5.90	5.99	2.66	3.94	11.60	1.40	7.00	5.90	2.60	4.20
BRS4-16009G	6.00	5.90	5.99	3.68	4.95	11.60	1.40	8.00	5.90	2.60	4.20
BRS4-16011G	6.00	5.90	5.99	4.70	5.96	11.60	1.40	9.00	5.90	2.60	4.20
BRS4-16013G	6.00	5.90	5.99	5.71	6.98	11.60	1.40	10.00	5.90	2.60	4.20
BRS4-16015G	6.00	5.90	5.99	6.73	7.99	11.60	1.40	11.00	5.90	2.60	4.20
BRS4-16017G	6.00	5.90	5.99	7.74	9.01	11.60	1.40	12.00	5.90	2.60	4.20

Part Number Call and Explanation	
PART NUMBER EXAMPLE – BR - S4 - 1 - 32 - 04 - G	
BR	HYDRASPEED - B
S4	STEEL
1	HEAD TYPE DOME HEAD
32	SIZE 3.2 MM
04	LENGTH C
G	FINISH ZINC PLATED

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Technical Data Sheet

Hydraspeed - BRS4

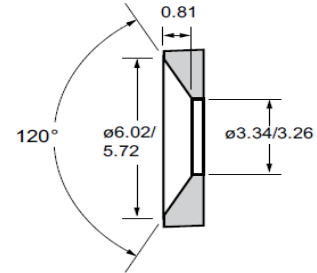
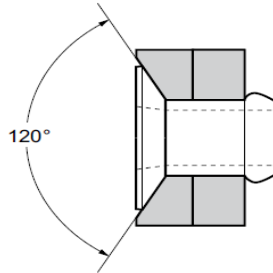
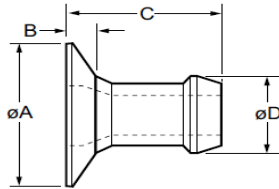
MATERIAL

HEAD TYPE: COUNTER SUNK

BODY: LOW CARBON STEEL

FINISH

BODY: ZINC PLATED



All Dimension are in millimeters

Part Number	Size	Hole Size		Grip Range		A	B	C	D	Shear	Tensile
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	KN	KN
BRS4-23205G	3.20	3.26	3.34	1.52	2.79	6.00	0.90	4.80	3.20	0.90	1.60
BRS4-23206G	3.20	3.26	3.34	2.54	3.81	6.00	0.90	5.80	3.20	0.90	1.60
BRS4-23207G	3.20	3.26	3.34	3.56	4.83	6.00	0.90	6.80	3.20	0.90	1.60
BRS4-23208G	3.20	3.26	3.34	4.57	5.84	6.00	0.90	7.80	3.20	0.90	1.60
BRS4-23209G	3.20	3.26	3.34	5.59	6.86	6.00	0.90	8.80	3.20	0.90	1.60

Part Number Call and Explanation

PART NUMBER EXAMPLE – BR - S4 - 2 - 32 - 05 - G

BR	HYDRASPEED - B
S4	STEEL
2	HEAD TYPE COUNTERSUNK
32	SIZE 3.2 MM
05	LENGTH C
G	FINISH ZINC PLATED

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Technical Data Sheet

Hydraspeed - BRX7

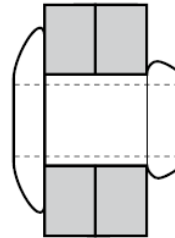
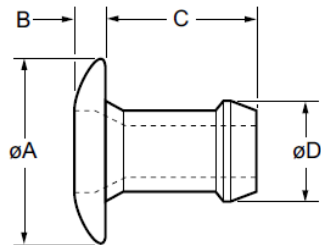
MATERIAL

HEAD TYPE: DOME HEAD

BODY: STAINLESS STEEL

FINISH

BODY: POLISHED



All Dimension are in millimeters

Part Number	Size	Hole Size		Grip Range		A	B	C	D	Shear	Tensile
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	KN	KN
BRX7-13204P	3.20	3.26	3.34	1.14	2.42	6.60	1.00	4.40	3.20	1.60	1.90
BRX7-13205P	3.20	3.26	3.34	2.15	3.43	6.60	1.00	5.40	3.20	1.60	1.90
BRX7-13206P	3.20	3.26	3.34	3.17	4.45	6.60	1.00	6.40	3.20	1.60	1.90
BRX7-13207P	3.20	3.26	3.34	4.00	5.47	6.60	1.00	7.40	3.20	1.60	1.90
BRX7-13208P	3.20	3.26	3.34	5.20	6.48	6.60	1.00	8.40	3.20	1.60	1.90
BRX7-14005P	4.00	3.97	4.04	1.57	2.95	8.20	1.00	4.90	3.90	2.40	3.50
BRX7-14006P	4.00	3.97	4.04	2.66	3.94	8.20	1.00	5.90	3.90	2.40	3.50
BRX7-14007P	4.00	3.97	4.04	3.68	4.96	8.20	1.00	6.90	3.90	2.40	3.50
BRX7-14008P	4.00	3.97	4.04	4.69	5.97	8.20	1.00	8.00	3.90	2.40	3.50
BRX7-14009P	4.00	3.97	4.04	5.71	6.99	8.20	1.00	9.00	3.90	2.40	3.50
BRX7-14807P	4.80	4.85	4.93	2.03	3.94	9.70	1.20	6.10	4.80	3.50	5.10
BRX7-14809P	4.80	4.85	4.93	3.68	5.21	9.70	1.20	7.40	4.80	3.50	5.10
BRX7-14810P	4.80	4.85	4.93	4.35	5.84	9.70	1.20	8.00	4.80	3.50	5.10
BRX7-14811P	4.80	4.85	4.93	4.95	6.48	9.70	1.20	8.60	4.80	3.50	5.10
BRX7-14813P	4.80	4.85	4.93	6.22	7.75	9.70	1.20	9.90	4.80	3.50	5.10
BRX7-14815P	4.80	4.85	4.93	7.49	9.02	9.70	1.20	11.20	4.80	3.50	5.10

Part Number Call and Explanation

PART NUMBER EXAMPLE – BR - X7 - 1 - 32 - 04 - P

BR	HYDRASPEED - B
X7	STAINLESS STEEL 304
1	HEAD TYPE DOME
32	SIZE 3.2MM
04	LENGTH C
P	POLISHED

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Technical Data Sheet

Hydraspeed - BRB9

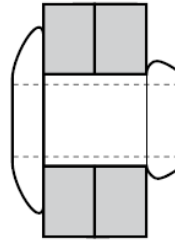
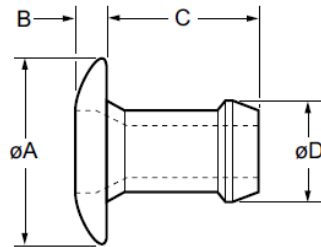
MATERIAL

HEAD TYPE: DOME HEAD

BODY: BRASS

FINISH

BODY: ELECTRO TIN PLATED



All Dimension are in millimeters

Part Number	Size	Hole Size		Grip Range		A	B	C	D	Shear	Tensile
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	KN	KN
BRB9-12404T	2.40	2.36	2.44	1.14	2.42	4.10	0.90	4.00	2.30	0.60	0.90
BRB9-12405T	2.40	2.36	2.44	2.15	3.43	4.10	0.90	5.00	2.30	0.60	0.90
BRB9-12406T	2.40	2.36	2.44	3.17	4.45	4.10	0.90	6.00	2.30	0.60	0.90
BRB9-12407T	2.40	2.36	2.44	4.19	5.47	4.10	0.90	7.00	2.30	0.60	0.90
BRB9-12408T	2.40	2.36	2.44	5.20	6.48	4.10	0.90	8.10	2.30	0.60	0.90
BRB9-12409T	2.40	2.36	2.44	6.22	7.50	4.10	0.90	9.10	2.30	0.60	0.90
BRB9-13204T	3.20	3.26	3.34	1.14	2.42	6.60	1.00	4.40	3.20	1.10	1.90
BRB9-13205T	3.20	3.26	3.34	2.15	3.43	6.60	1.00	5.40	3.20	1.10	1.90
BRB9-13206T	3.20	3.26	3.34	3.17	4.45	6.60	1.00	6.40	3.20	1.10	1.90
BRB9-13207T	3.20	3.26	3.34	4.19	5.47	6.60	1.00	7.40	3.20	1.10	1.90
BRB9-13208T	3.20	3.26	3.34	5.20	6.48	6.60	1.00	8.40	3.20	1.10	1.90
BRB9-14005T	4.00	3.97	4.04	1.57	2.95	8.20	1.00	4.90	3.90	1.90	2.80
BRB9-14006T	4.00	3.97	4.04	2.66	3.94	8.20	1.00	5.90	3.90	1.90	2.80
BRB9-14007T	4.00	3.97	4.04	3.68	4.96	8.20	1.00	6.90	3.90	1.90	2.80
BRB9-14008T	4.00	3.97	4.04	4.69	5.97	8.20	1.00	8.00	3.90	1.90	2.80
BRB9-14009T	4.00	3.97	4.04	5.71	6.99	8.20	1.00	9.00	3.90	1.90	2.80
BRB9-14806T	4.80	4.85	4.93	2.03	3.94	9.70	1.20	6.10	4.80	2.30	3.60
BRB9-14807T	4.80	4.85	4.93	3.68	5.21	9.70	1.20	7.40	4.80	2.30	3.60
BRB9-14809T	4.80	4.85	4.93	4.95	6.48	9.70	1.20	8.60	4.80	2.30	3.60
BRB9-14810T	4.80	4.85	4.93	6.22	7.75	9.70	1.20	9.90	4.80	2.30	3.60
BRB9-14811T	4.80	4.85	4.93	7.49	9.02	9.70	1.20	11.20	4.80	2.30	3.60

Part Number Call and Explanation

PART NUMBER EXAMPLE – BR - B9 - 1 - 24 - 04 - T

BR	HYDRASPEED - B
B9	BRASS
1	HEAD TYPE DOME
24	SIZE 2.4MM
04	LENGTH C
T	ELECTRO TIN PLATED

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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Hydraspeed - C

Product Description & Features

Hydraspeed-C is a blind Speed Fastening System which provides consistent controlled clamp, ideal for soft or brittle materials. The light clamp of the Hydraspeed-C rivet makes it ideal for use as a pivot pin or hose tail.

Key features and benefits

- Expands radially during installation to ensure maximum hole fill
- Lower in-place costs than welding or nail rivets
- Ideal pivot pin or hose tail
- Hot tin dipped brass option for ease of soldering and good electrical continuity
- Placed using a unique repetition mandrel system for high speed assembly
- Can be bowl fed for larger volume applications using automated equipment
- Internally tapered bore ensures consistent light clamp to reduce potential damage to Soft or brittle materials

Assembly materials

- Hydraspeed-C can be used to fasten:
- Metal to metal
- Metal to plastic

Assembly applications

- Automotive
- Electronic components
- Sheet metal
- Electrical engineering
- Injection moulded components
- Switchgear
- Domestic appliances
- General sheet metal
- General light fabrication

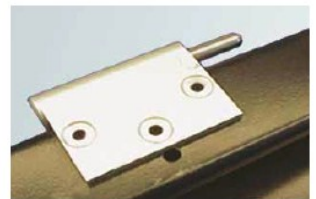
Window hinge



Alloy tube with nylon bush



Computer rack glass door hinge



Housing for car alarm



Composite material latch for wheel cover



Cooler



Specifications

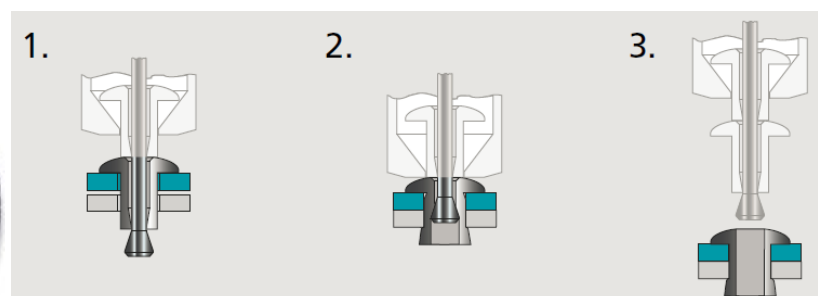
- Sizes: 2.4mm to 6.4mm (3/32" to 1/4")
- Materials: Aluminum alloy, steel and brass
- Head form: Dome/mushroom and countersunk

Installation Equipment

- The pictures below shows Avlock installation equipment which can be use to place Hydraspeed-C fasteners



Typical placing sequence



Technical Data Sheet

Hydraspeed - CHS4

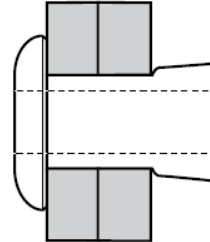
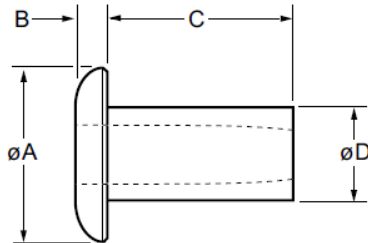
MATERIAL

HEAD TYPE: DOME HEAD

BODY: LOW CARBON STEEL

FINISH

BODY: ZINC PLATED



All Dimension are in millimeters

Part Number	Size	Hole Size		Grip Range		A	B	C	D	Shear (Pinned)	Tensile (Unpinned)
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	KN	KN
CHS4-13203G	3.20	3.26	3.34	0.00	1.57	5.50	1.20	3.20	3.26	2.60	1.40
CHS4-13204G	3.20	3.26	3.34	0.79	2.36	5.50	1.20	4.00	3.26	2.60	1.40
CHS4-13205G	3.20	3.26	3.34	1.57	3.18	5.50	1.20	4.80	3.26	2.60	1.40
CHS4-13206G	3.20	3.26	3.34	3.18	4.75	5.50	1.20	6.40	3.26	2.60	1.40
CHS4-13208G	3.20	3.26	3.34	4.75	6.35	5.50	1.20	7.90	3.26	2.60	1.40
CHS4-13210G	3.20	3.26	3.34	6.35	7.92	5.50	1.20	9.50	3.26	2.60	1.40
CHS4-14005G	4.00	4.09	4.16	1.57	3.18	6.50	1.50	4.80	4.04	4.00	2.40
CHS4-14006G	4.00	4.09	4.16	3.18	4.75	6.50	1.50	6.40	4.04	4.00	2.40
CHS4-14008G	4.00	4.09	4.16	4.75	6.35	6.50	1.50	7.90	4.04	4.00	2.40
CHS4-14009G	4.00	4.09	4.16	6.35	7.92	6.50	1.50	9.50	4.04	4.00	2.40
CHS4-14011G	4.00	4.09	4.16	7.92	9.52	6.50	1.50	11.10	4.04	4.00	2.40
CHS4-14013G	4.00	4.09	4.16	9.52	11.10	6.50	1.50	12.70	4.04	4.00	2.40
CHS4-14804G	4.80	4.85	4.93	0.00	1.57	10.50	1.80	4.00	4.85	5.80	3.20
CHS4-14806G	4.80	4.85	4.93	1.57	3.18	10.50	1.80	5.60	4.85	5.80	3.20
CHS4-14807G	4.80	4.85	4.93	3.18	4.75	10.50	1.80	7.20	4.85	5.80	3.20
CHS4-14809G	4.80	4.85	4.93	4.75	6.35	10.50	1.80	8.80	4.85	5.80	3.20
CHS4-14810G	4.80	4.85	4.93	6.35	7.92	10.50	1.80	10.00	4.85	5.80	3.20
CHS4-14812G	4.80	4.85	4.93	7.92	9.52	10.50	1.80	12.00	4.85	5.80	3.20
CHS4-14813G	4.80	4.85	4.93	9.52	11.10	10.50	1.80	13.50	4.85	5.80	3.20
CHS4-14815G	4.80	4.85	4.93	11.10	12.70	10.50	1.80	15.10	4.85	5.80	3.20
CHS4-16407G	6.40	6.35	6.42	3.18	4.75	10.50	2.10	7.20	6.35	10.00	4.40
CHS4-16409G	6.40	6.35	6.42	4.75	6.35	10.50	2.10	8.80	6.35	10.00	4.40
CHS4-16410G	6.40	6.35	6.42	6.35	7.92	10.50	2.10	10.00	6.35	10.00	4.40
CHS4-16412G	6.40	6.35	6.42	7.92	9.52	10.50	2.10	12.00	6.35	10.00	4.40
CHS4-16413G	6.40	6.35	6.42	9.52	11.10	10.50	2.10	13.50	6.35	10.00	4.40

Part Number Call and Explanation

PART NUMBER EXAMPLE – CH - S4 - 1 - 32 - 03 - G

CH	HYDRASPEED - C
S4	STEEL
1	HEAD TYPE DOME
32	SIZE 3.2MM
03	LENGTH C
G	ZINC PLATED

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Technical Data Sheet

Hydraspeed - CHS4

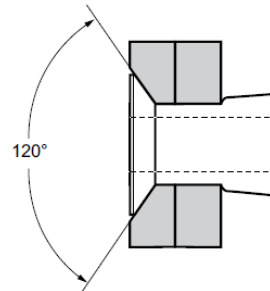
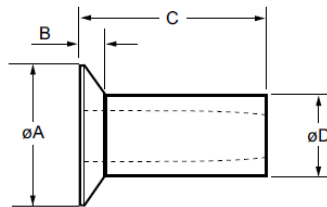
MATERIAL

HEAD TYPE: COUNTER SUNK

BODY: LOW CARBON STEEL

FINISH

BODY: ZINC PLATED



All Dimension are in millimeters

Part Number	Size	Hole Size		Grip Range		A	B	C	D	Shear (Pinned)	Tensile (Unpinned)
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	KN	KN
CHS4-23203G	3.20	3.26	3.34	0.91	1.57	5.80	0.90	3.30	3.26	2.60	1.40
CHS4-23204G	3.20	3.26	3.34	0.91	2.36	5.80	0.90	4.10	3.26	2.60	1.40
CHS4-23205G	3.20	3.26	3.34	1.57	3.17	5.80	0.90	4.90	3.26	2.60	1.40
CHS4-23206G	3.20	3.26	3.34	3.17	4.75	5.80	0.90	6.50	3.26	2.60	1.40
CHS4-23208G	3.20	3.26	3.34	4.75	6.35	5.80	0.90	8.10	3.26	2.60	1.40
CHS4-23210G	3.20	3.26	3.34	6.35	7.92	5.80	0.90	9.70	3.26	2.60	1.40
CHS4-24005G	4.00	4.09	4.16	1.57	3.17	6.80	1.00	4.90	4.85	4.00	2.40
CHS4-24006G	4.00	4.09	4.16	3.17	4.75	6.80	1.00	6.50	4.85	4.00	2.40
CHS4-24008G	4.00	4.09	4.16	4.75	6.35	6.80	1.00	8.10	4.85	4.00	2.40
CHS4-24010G	4.00	4.09	4.16	6.35	7.92	6.80	1.00	9.70	4.85	4.00	2.40
CHS4-24011G	4.00	4.09	4.16	7.92	9.52	6.80	1.00	11.20	4.85	4.00	2.40
CHS4-24013G	4.00	4.09	4.16	9.52	11.10	6.80	1.00	12.80	4.85	4.00	2.40
CHS4-24806G	4.80	4.85	4.93	1.57	3.17	9.20	1.40	5.70	6.35	5.80	3.20
CHS4-24807G	4.80	4.85	4.93	3.17	4.75	9.20	1.40	7.30	6.35	5.80	3.20
CHS4-24809G	4.80	4.85	4.93	4.75	6.35	9.20	1.40	8.90	6.35	5.80	3.20
CHS4-24810G	4.80	4.85	4.93	6.35	7.92	9.20	1.40	10.50	6.35	5.80	3.20
CHS4-24812G	4.80	4.85	4.93	7.92	9.52	9.20	1.40	12.00	6.35	5.80	3.20
CHS4-24814G	4.80	4.85	4.93	9.52	11.10	9.20	1.40	13.60	6.35	5.80	3.20
CHS4-24815G	4.80	4.85	4.93	11.10	12.70	9.20	1.40	15.20	6.35	5.80	3.20
CHS4-26410G	6.40	6.35	6.42	6.35	7.92	10.80	1.50	10.40	6.35	10.00	4.40
CHS4-26412G	6.40	6.35	6.42	7.92	9.52	10.80	1.50	12.00	6.35	10.00	4.40
CHS4-26414G	6.40	6.35	6.42	9.52	11.10	10.80	1.50	13.60	6.35	10.00	4.40
CHS4-26415G	6.40	6.35	6.42	11.10	12.70	10.80	1.50	15.20	6.35	10.00	4.40
CHS4-26417G	6.40	6.35	6.42	12.70	14.27	10.80	1.50	16.80	6.35	10.00	4.40
CHS4-26418G	6.40	6.35	6.42	14.27	15.87	10.80	1.50	18.40	6.35	10.00	4.40
CHS4-26420G	6.40	6.35	6.42	15.87	17.45	10.80	1.50	20.00	6.35	10.00	4.40

Part Number Call and Explanation

PART NUMBER EXAMPLE – CH - S4 - 2 - 32 - 03 - G

CH	HYDRASPEED - C
S4	STEEL
2	HEAD TYPE COUNTERSUNK
32	SIZE 3.2MM
03	LENGTH C
G	ZINC PLATED

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Technical Data Sheet

Hydraspeed - CHA2

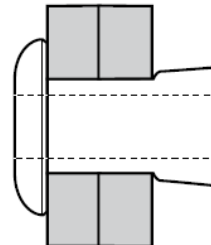
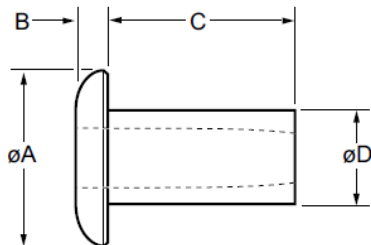
MATERIAL

HEAD TYPE: DOME HEAD

BODY: ALUMINIUM ALLOY (2.5% Mg)

FINISH

BODY: NATURAL



All Dimension are in millimeters

Part Number	Size	Hole Size		Grip Range		A	B	C	D	Shear (Pinned)	Tensile (Unpinned)
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	KN	KN
CHA2-12403N	2.40	2.49	2.55	0.00	1.57	4.00	1.00	3.17	2.48	0.70	0.30
CHA2-12405N	2.40	2.49	2.55	1.57	3.17	4.00	1.00	4.75	2.48	0.70	0.30
CHA2-12406N	2.40	2.49	2.55	3.17	4.75	4.00	1.00	6.35	2.48	0.70	0.30
CHA2-12408N	2.40	2.49	2.55	4.75	6.35	4.00	1.00	7.92	2.48	0.70	0.30
CHA2-13203N	3.20	2.49	2.55	0.00	1.57	5.20	1.20	3.17	3.27	1.30	0.60
CHA2-13205N	3.20	2.49	2.55	1.57	3.17	5.20	1.20	4.75	3.27	1.30	0.60
CHA2-13206N	3.20	2.49	2.55	3.17	4.75	5.20	1.20	6.35	3.27	1.30	0.60
CHA2-13208N	3.20	2.49	2.55	4.75	6.35	5.20	1.20	7.92	3.27	1.30	0.60
CHA2-13210N	3.20	2.49	2.55	6.35	7.92	5.20	1.20	9.52	3.27	1.30	0.60
CHA2-13211N	3.20	2.49	2.55	7.92	9.52	5.20	1.20	11.10	3.27	1.30	0.60
CHA2-14005N	4.00	4.09	4.16	1.57	3.17	6.20	1.50	4.75	4.06	1.90	1.00
CHA2-14006N	4.00	4.09	4.16	3.17	4.75	6.20	1.50	6.35	4.06	1.90	1.00
CHA2-14008N	4.00	4.09	4.16	4.75	6.35	6.20	1.50	7.92	4.06	1.90	1.00
CHA2-14010N	4.00	4.09	4.16	6.35	7.92	6.20	1.50	9.52	4.06	1.90	1.00
CHA2-14011N	4.00	4.09	4.16	7.92	9.52	6.20	1.50	11.10	4.06	1.90	1.00
CHA2-14013N	4.00	4.09	4.16	9.52	11.10	6.20	1.50	12.70	4.06	1.90	1.00
CHA2-14014N	4.00	4.09	4.16	11.10	12.70	6.20	1.50	14.40	4.06	1.90	1.00
CHA2-14016N	4.00	4.09	4.16	12.70	14.27	6.20	1.50	16.00	4.06	1.90	1.00
CHA2-14806N	4.80	4.85	4.93	1.57	3.17	8.60	1.80	5.56	4.82	3.50	1.50
CHA2-14807N	4.80	4.85	4.93	3.17	4.75	8.60	1.80	7.14	4.82	3.50	1.50
CHA2-14809N	4.80	4.85	4.93	4.75	6.35	8.60	1.80	8.74	4.82	3.50	1.50
CHA2-14810N	4.80	4.85	4.93	6.35	7.92	8.60	1.80	10.31	4.82	3.50	1.50
CHA2-14812N	4.80	4.85	4.93	7.92	9.52	8.60	1.80	11.91	4.82	3.50	1.50
CHA2-14813N	4.80	4.85	4.93	9.52	11.10	8.60	1.80	13.49	4.82	3.50	1.50
CHA2-14815N	4.80	4.85	4.93	11.10	12.70	8.60	1.80	15.09	4.82	3.50	1.50

Part Number Call and Explanation

PART NUMBER EXAMPLE – CH - A2 - 2 - 32 - 03 - N

CH	HYDRASPEED - C
A2	ALUMINIUM ALLOY 2.5% Mg
1	HEAD TYPE DOME HEAD
32	SIZE 3.2MM
03	LENGTH C
N	NATURAL

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Technical Data Sheet

Hydraspeed - CHA3

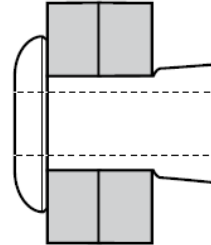
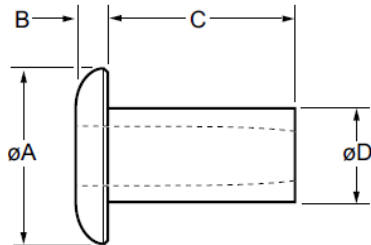
MATERIAL

HEAD TYPE: DOME HEAD

BODY: ALUMINIUM ALLOY (3% Mg)

FINISH

BODY: NATURAL



All Dimension are in millimeters

Part Number	Size	Hole Size		Grip Range		A	B	C	D	Shear (Pinned)	Tensile (Unpinned)
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	KN	KN
CHA3-12403N	2.40	2.49	2.55		1.57	4.00	1.00	3.17	2.48	0.80	0.50
CHA3-12403N	2.40	2.49	2.55	1.57	3.17	4.00	1.00	4.75	2.48	0.80	0.50
CHA3-12403N	2.40	2.49	2.55	3.17	4.75	4.00	1.00	6.35	2.48	0.80	0.50
CHA3-12403N	2.40	2.49	2.55	4.75	6.35	4.00	1.00	7.92	2.48	0.80	0.50
CHA3-12403N	2.40	2.49	2.55	6.35	7.92	4.00	1.00	9.52	2.48	0.80	0.50
CHA3-12403N	2.40	2.49	2.55	7.92	9.52	4.00	1.00	11.10	2.48	0.80	0.50
CHA3-12403N	2.40	2.49	2.55	9.52	11.10	4.00	1.00	12.70	2.48	0.80	0.50
CHA3-13203N	3.20	3.28	3.34	0.00	1.57	5.20	1.20	3.17	3.27	1.60	0.80
CHA3-13203N	3.20	3.28	3.34	1.57	3.17	5.20	1.20	4.75	3.27	1.60	0.80
CHA3-13203N	3.20	3.28	3.34	3.17	4.75	5.20	1.20	6.35	3.27	1.60	0.80
CHA3-13203N	3.20	3.28	3.34	4.75	6.35	5.20	1.20	7.92	3.27	1.60	0.80
CHA3-13203N	3.20	3.28	3.34	6.35	7.92	5.20	1.20	9.52	3.27	1.60	0.80
CHA3-14005N	4.00	4.09	4.16	1.57	3.17	6.20	1.50	4.75	4.06	2.60	1.60
CHA3-14005N	4.00	4.09	4.16	3.17	4.75	6.20	1.50	6.35	4.06	2.60	1.60
CHA3-14005N	4.00	4.09	4.16	4.75	6.35	6.20	1.50	7.92	4.06	2.60	1.60
CHA3-14005N	4.00	4.09	4.16	6.35	7.92	6.20	1.50	9.52	4.06	2.60	1.60
CHA3-14005N	4.00	4.09	4.16	7.92	9.52	6.20	1.50	11.10	4.06	2.60	1.60
CHA3-14005N	4.00	4.09	4.16	9.52	11.10	6.20	1.50	12.70	4.06	2.60	1.60
CHA3-14005N	4.00	4.09	4.16	11.10	12.70	6.20	1.50	14.40	4.06	2.60	1.60
CHA3-14005N	4.00	4.09	4.16	12.70	14.27	6.20	1.50	16.00	4.06	2.60	1.60

Part Number Call and Explanation

PART NUMBER EXAMPLE – CH - A3 - 2 - 24 - 03 - N

CH	HYDRASPEED - C
A3	ALUMINIUM ALLOY 3% Mg
1	HEAD TYPE DOME HEAD
24	SIZE 2.4MM
03	LENGTH C
N	NATURAL

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Technical Data Sheet

Hydraspeed - CHA3

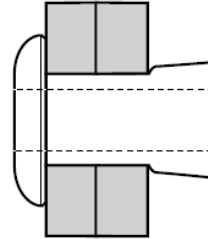
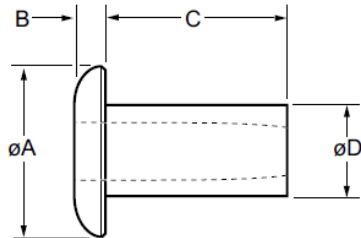
MATERIAL

HEAD TYPE: DOME HEAD

BODY: ALUMINIUM ALLOY (3% Mg)

FINISH

BODY: NATURAL



All Dimension are in millimeters

Part Number	Size	Hole Size		Grip Range		A	B	C	D	Shear (Pinned)	Tensile (Unpinned)
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	KN	KN
CHA3-14804N	4.80	4.85	4.93		1.57	8.60	1.80	3.96	4.82	3.60	2.00
CHA3-14804N	4.80	4.85	4.93	1.57	3.17	8.60	1.80	5.56	4.82	3.60	2.00
CHA3-14804N	4.80	4.85	4.93	3.17	4.75	8.60	1.80	7.14	4.82	3.60	2.00
CHA3-14804N	4.80	4.85	4.93	4.75	6.35	8.60	1.80	8.74	4.82	3.60	2.00
CHA3-14804N	4.80	4.85	4.93	6.35	7.92	8.60	1.80	10.31	4.82	3.60	2.00
CHA3-14804N	4.80	4.85	4.93	7.92	9.52	8.60	1.80	11.91	4.82	3.60	2.00
CHA3-14804N	4.80	4.85	4.93	9.52	11.10	8.60	1.80	13.49	4.82	3.60	2.00
CHA3-14804N	4.80	4.85	4.93	11.10	12.70	8.60	1.80	15.09	4.82	3.60	2.00
CHA3-16407N	6.40	6.35	6.42	3.17	4.75	10.20	2.20	7.14	6.32	4.40	2.70
CHA3-16409N	6.40	6.35	6.42	4.75	6.35	10.20	2.20	8.74	6.32	4.40	2.70
CHA3-16410N	6.40	6.35	6.42	6.35	7.92	10.20	2.20	10.31	6.32	4.40	2.70
CHA3-16412N	6.40	6.35	6.42	7.92	9.52	10.20	2.20	11.91	6.32	4.40	2.70
CHA3-16413N	6.40	6.35	6.42	9.52	11.10	10.20	2.20	13.49	6.32	4.40	2.70
CHA3-16415N	6.40	6.35	6.42	11.10	12.70	10.20	2.20	15.09	6.32	4.40	2.70
CHA3-16417N	6.40	6.35	6.42	12.70	14.27	10.20	2.20	16.66	6.32	4.40	2.70
CHA3-16418N	6.40	6.35	6.42	14.27	15.87	10.20	2.20	18.26	6.32	4.40	2.70
CHA3-16420N	6.40	6.35	6.42	15.87	17.45	10.20	2.20	19.84	6.32	4.40	2.70

Part Number Call and Explanation

PART NUMBER EXAMPLE – CH - A3 - 1 - 48 - 04 - N

CH	HYDRASPEED - C
A3	ALUMINIUM ALLOY 3% Mg
1	HEAD TYPE DOME
48	SIZE 4.8MM
04	LENGTH C
N	NATURAL

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Technical Data Sheet

Hydraspeed - CHA3

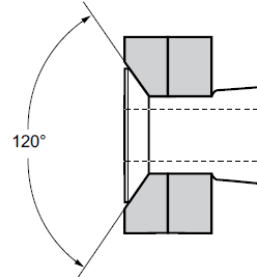
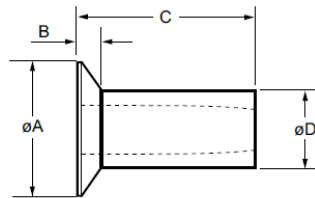
MATERIAL

HEAD TYPE: COUNTER SUNK

BODY: ALUMINIUM ALLOY (3% Mg)

FINISH

BODY: NATURAL



All Dimension are in millimeters

Part Number	Size	Hole Size		Grip Range		A	B	C	D	Shear (Pinned)	Tensile (Unpinned)
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	KN	KN
CHA3-22405N	2.40	2.49	2.55	1.57	3.17	4.10	0.90	4.88	2.46	0.80	0.50
CHA3-22406N	2.40	2.49	2.55	3.17	4.75	4.10	0.90	6.48	2.46	0.80	0.50
CHA3-22408N	2.40	2.49	2.55	4.75	6.35	4.10	0.90	8.06	2.46	0.80	0.50
CHA3-22410N	2.40	2.49	2.55	6.35	7.92	4.10	0.90	9.66	2.46	0.80	0.50
CHA3-23203N	3.20	3.28	3.34		1.57	5.20	1.00	3.31	3.25	1.60	0.90
CHA3-23205N	3.20	3.28	3.34	1.57	3.17	5.20	1.00	4.88	3.25	1.60	0.90
CHA3-23206N	3.20	3.28	3.34	3.17	4.75	5.20	1.00	6.48	3.25	1.60	0.90
CHA3-23208N	3.20	3.28	3.34	4.75	6.35	5.20	1.00	8.06	3.25	1.60	0.90
CHA3-23210N	3.20	3.28	3.34	6.35	7.92	5.20	1.00	9.66	3.25	1.60	0.90
CHA3-24005N	4.00	4.09	4.16	1.57	3.17	6.20	1.00	4.88	4.04	2.60	1.60
CHA3-24006N	4.00	4.09	4.16	3.17	4.75	6.20	1.00	6.48	4.04	2.60	1.60
CHA3-24008N	4.00	4.09	4.16	4.75	6.35	6.20	1.00	8.06	4.04	2.60	1.60
CHA3-24010N	4.00	4.09	4.16	6.35	7.92	6.20	1.00	9.66	4.04	2.60	1.60
CHA3-24011N	4.00	4.09	4.16	7.92	9.52	6.20	1.00	11.23	4.04	2.60	1.60
CHA3-24013N	4.00	4.09	4.16	9.52	11.10	6.20	1.00	12.83	4.04	2.60	1.60

Part Number Call and Explanation

PART NUMBER EXAMPLE – CH - A3 - 2 - 24 - 05 - N

CH	HYDRASPEED - C
A3	ALUMINIUM ALLOY 3% Mg
2	HEAD TYPE COUNTERSUNK
24	SIZE 2.4MM
05	LENGTH C
N	NATURAL

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Technical Data Sheet

Hydraspeed - CHA3

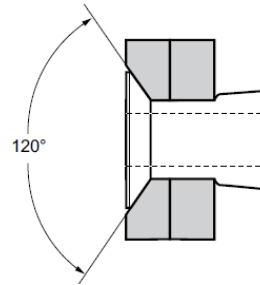
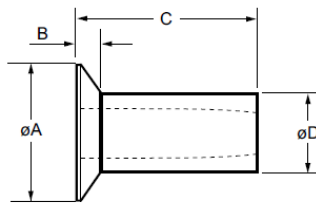
MATERIAL

HEAD TYPE: COUNTER SUNK

BODY: ALUMINIUM ALLOY (3% Mg)

FINISH

BODY: NATURAL



All Dimension are in millimeters

Part Number	Size	Hole Size		Grip Range		A	B	C	D	Shear (Pinned)	Tensile (Unpinned)
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	KN	KN
CHA3-24806N	4.80	4.85	4.93	1.57	3.17	8.60	1.50	5.69	4.80	3.60	2.00
CHA3-24807N	4.80	4.85	4.93	3.17	4.75	8.60	1.50	7.27	4.80	3.60	2.00
CHA3-24809N	4.80	4.85	4.93	4.75	6.35	8.60	1.50	8.87	4.80	3.60	2.00
CHA3-24810N	4.80	4.85	4.93	6.35	7.92	8.60	1.50	10.44	4.80	3.60	2.00
CHA3-24812N	4.80	4.85	4.93	7.92	9.52	8.60	1.50	12.04	4.80	3.60	2.00
CHA3-24814N	4.80	4.85	4.93	9.52	11.10	8.60	1.50	13.62	4.80	3.60	2.00
CHA3-24815N	4.80	4.85	4.93	11.10	12.70	8.60	1.50	15.22	4.80	3.60	2.00
CHA3-26407N	6.40	6.35	6.42	3.17	4.75	10.20	1.50	7.27	6.30	4.40	2.70
CHA3-26409N	6.40	6.35	6.42	4.75	6.35	10.20	1.50	8.87	6.30	4.40	2.70
CHA3-26410N	6.40	6.35	6.42	6.35	7.92	10.20	1.50	10.44	6.30	4.40	2.70
CHA3-26412N	6.40	6.35	6.42	7.92	9.52	10.20	1.50	12.04	6.30	4.40	2.70
CHA3-26414N	6.40	6.35	6.42	9.52	11.10	10.20	1.50	13.62	6.30	4.40	2.70
CHA3-26415N	6.40	6.35	6.42	11.10	12.70	10.20	1.50	15.22	6.30	4.40	2.70

Part Number Call and Explanation

PART NUMBER EXAMPLE – CH - A3 - 2 - 48 - 06 - N

CH	HYDRASPEED - C
A3	ALUMINIUM ALLOY 3% Mg
2	HEAD TYPE COUNTERSUNK
48	SIZE 4.8MM
06	LENGTH C
N	NATURAL

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Technical Data Sheet

Hydraspeed - CHB9

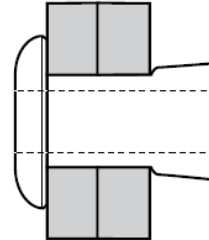
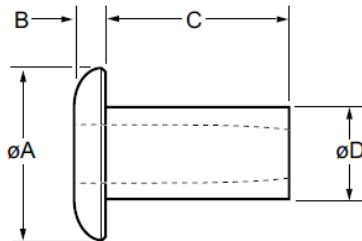
MATERIAL

HEAD TYPE: DOME HEAD

BODY: BRASS

FINISH

BODY: BRIGHTENED / POLISHED



All Dimension are in millimeters

Part Number	Size	Hole Size		Grip Range		A	B	C	D	Shear (Pinned)
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	KN
CHB9-12403P	2.40	2.49	2.55		1.57	4.00	1.00	3.17	2.47	0.80
CHB9-12405P	2.40	2.49	2.55	1.57	3.17	4.00	1.00	4.75	2.47	0.80
CHB9-12406P	2.40	2.49	2.55	3.17	4.75	4.00	1.00	6.35	2.47	0.80
CHB9-12408P	2.40	2.49	2.55	4.75	6.35	4.00	1.00	7.92	2.47	0.80
CHB9-13203P	3.20	3.28	3.34		1.57	5.20	1.20	3.17	3.25	1.30
CHB9-13208P	3.20	3.28	3.34	1.57	3.17	5.20	1.20	4.75	3.25	1.30
CHB9-13206P	3.20	3.28	3.34	3.17	4.75	5.20	1.20	6.35	3.25	1.30
CHB9-13208P	3.20	3.28	3.34	4.75	6.35	5.20	1.20	7.92	3.25	1.30
CHB9-14005P	4.00	4.09	4.16	1.57	3.17	6.20	1.50	4.75	4.04	2.30
CHB9-14006P	4.00	4.09	4.16	3.17	4.75	6.20	1.50	6.35	4.04	2.30
CHB9-14008P	4.00	4.09	4.16	4.75	6.35	6.20	1.50	7.92	4.04	2.30
CHB9-14010P	4.00	4.09	4.16	6.35	7.92	6.20	1.50	9.52	4.04	2.30
CHB9-14011P	4.00	4.09	4.16	7.92	9.52	6.20	1.50	11.10	4.04	2.30
CHB9-14806P	4.80	4.85	4.93	1.57	3.17	8.60	1.80	5.56	4.85	3.10
CHB9-14807P	4.80	4.85	4.93	3.17	4.75	8.60	1.80	7.14	4.85	3.10
CHB9-14809P	4.80	4.85	4.93	4.75	6.35	8.60	1.80	8.74	4.85	3.10
CHB9-14810P	4.80	4.85	4.93	6.35	7.92	8.60	1.80	10.31	4.85	3.10
CHB9-14812P	4.80	4.85	4.93	7.92	9.52	8.60	1.80	11.91	4.85	3.10
CHB9-14813P	4.80	4.85	4.93	9.52	11.10	8.60	1.80	13.49	4.85	3.10

Part Number Call and Explanation

PART NUMBER EXAMPLE – CH - B9 - 2 - 24 - 03 - P

CH	HYDRASPEED - C
B9	BRASS
1	HEAD TYPE DOME
24	SIZE 2.4MM
03	LENGTH C
P	BRIGHTENED/POLISHED

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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Technical Data Sheet

Hydraspeed - CHB9

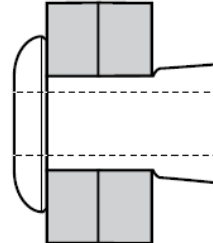
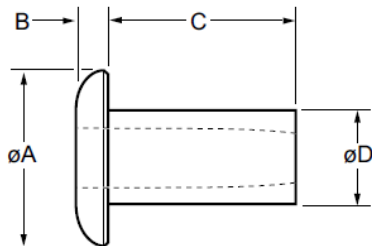
MATERIAL

HEAD TYPE: DOME HEAD

BODY: BRASS

FINISH

BODY: HOT TIN DIPPED



All Dimension are in millimeters

Part Number	Size	Hole Size		Grip Range		A	B	C	D	Shear (Pinned)
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	KN
CHB9-12403T	2.40	2.49	2.55		1.57	4.00	1.00	3.17	2.47	0.80
CHB9-12405T	2.40	2.49	2.55	1.57	3.17	4.00	1.00	4.75	2.47	0.80
CHB9-12406T	2.40	2.49	2.55	3.17	4.75	4.00	1.00	6.35	2.47	0.80
CHB9-12408T	2.40	2.49	2.55	4.75	6.35	4.00	1.00	7.92	2.47	0.80
CHB9-12410T	2.40	2.49	2.55	6.35	7.92	4.00	1.00	9.52	2.47	0.80
CHB9-13203T	3.20	3.28	3.34		1.57	5.20	1.20	3.17	3.25	1.30
CHB9-13205T	3.20	3.28	3.34	1.57	3.17	5.20	1.20	4.75	3.25	1.30
CHB9-13206T	3.20	3.28	3.34	3.17	4.75	5.20	1.20	6.35	3.25	1.30
CHB9-13208T	3.20	3.28	3.34	4.75	6.35	5.20	1.20	7.92	3.25	1.30
CHB9-14005T	4.00	4.09	4.16	1.57	3.17	6.20	1.50	4.75	4.04	2.30
CHB9-14006T	4.00	4.09	4.16	3.17	4.75	6.20	1.50	6.35	4.04	2.30
CHB9-14008T	4.00	4.09	4.16	4.75	6.35	6.20	1.50	7.92	4.04	2.30
CHB9-14010T	4.00	4.09	4.16	6.35	7.92	6.20	1.50	9.52	4.04	2.30
CHB9-14011T	4.00	4.09	4.16	7.92	9.52	6.20	1.50	11.10	4.04	2.30
CHB9-14013T	4.00	4.09	4.16	9.52	11.10	6.20	1.50	12.70	4.04	2.30
CHB9-14806T	4.80	4.85	4.93	1.57	3.17	8.60	1.80	5.56	4.85	3.10
CHB9-14807T	4.80	4.85	4.93	3.17	4.75	8.60	1.80	7.14	4.85	3.10
CHB9-14809T	4.80	4.85	4.93	4.75	6.35	8.60	1.80	8.74	4.85	3.10
CHB9-14810T	4.80	4.85	4.93	6.35	7.92	8.60	1.80	10.31	4.85	3.10
CHB9-14812T	4.80	4.85	4.93	7.92	9.52	8.60	1.80	11.91	4.85	3.10
CHB9-14814T	4.80	4.85	4.93	9.52	11.10	8.60	1.80	13.49	4.85	3.10

Part Number Call and Explanation

PART NUMBER EXAMPLE – CH - B9 - 1 - 24 - 03 - T

CH	HYDRASPEED - C
B9	BRASS
1	HEAD TYPE DOME
24	SIZE 2.4MM
03	LENGTH C
T	HOT TIN DIPPED

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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Hydraspeed - R

Product Description & Features

Hydraspeed-R is a blind Speed Fastening System having a threaded, removable speed fastener that combines the speed of rivet placement with the benefits of being able to remove and re-fasten. Using a Hydraspeed-R rivet removes the need for costly tapping or thread forming operation whilst creating a higher vibration resistant 'thread lock' compared to standard screws.

Key features and benefits

- Circular expansion during installation to form a thread in host material
- Removable for servicing with a hex key and reusable
- Can be used to fasten most materials up to Vickers hardness 105 Hv5
- Eliminates the need for costly tapping or thread-forming operations
- Bright tin plated steel option for ease of soldering and increase electrical conductivity
- Placed using a unique repetition mandrel system for high speed assembly
- Can be bowl fed for larger volume applications using automated equipment
- Various lengths available providing high clamp loads
- Placed using a hexagon mandrel which expands the threaded diameter radially, Adjacent to its six corners.
- Providing a higher vibration resistant "thread lock" in the parent material Compared to standard screws

Assembly materials

Hydraspeed-R can be used to fasten:

- Depends on Hardness of base material.
- Metal to plastic
- Plastic to plastic
- Aluminium alloy
- Magnesium
- Nylon and die-cast zinc
- Electronic components

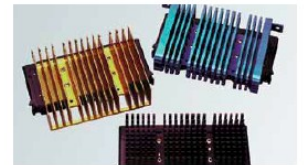
Hydraspeed R is removable and reusable



Automotive die-cast chassis with PCB



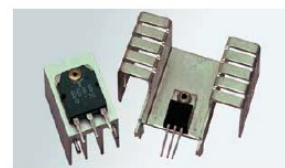
Heatsinks to processor cartridges



Alternator diode plate to nylon moulding



Semi-conductors to heatsinks and printed circuit boards



Seat belt tensioner



Assembly applications

- Aluminium die-cast boxes
- Cast magnesium
- Semi-conductors to thin wall and extruded heatsinks
- Semi-conductors to PCB's
- PCB's to chassis assemblies
- Fastening into injection molded plastic bosses
- General engineering involving plastics, nylon, polycarbonate, etc.

Specifications

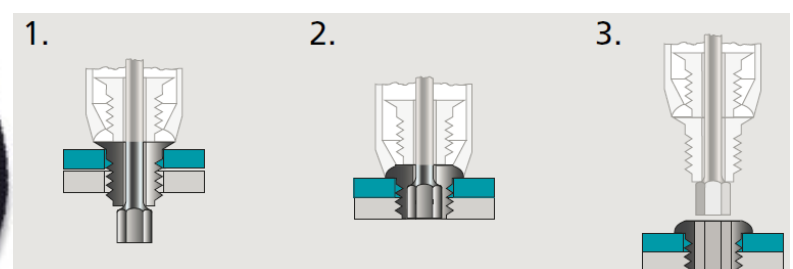
- Sizes: 2.8mm to 4.8mm
- Material: steel
- Head form: Dome/mushroom

Installation Equipment

- The pictures below shows Avlock installation equipment which can be use to place Hydraspeed-R fasteners



Typical placing sequence



Technical Data Sheet

Hydraspeed - RSS4

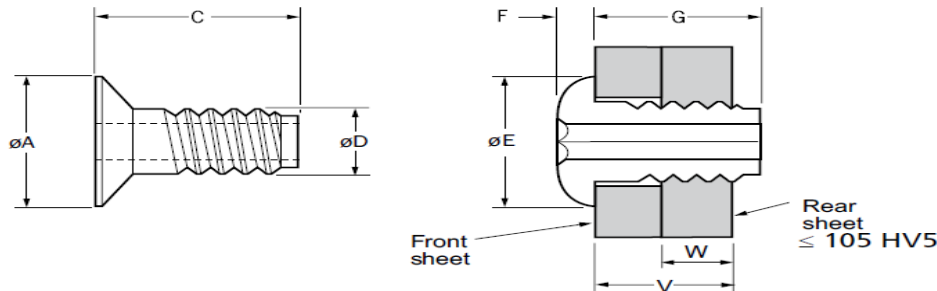
MATERIAL

HEAD TYPE: DOME HEAD

BODY: STEEL

FINISH

BODY: ZINC PLATED



All Dimension are in millimeters

Part Number	Size	Front sheet		Rear sheet		A	C	W	V	E	F	G	Share	Tensile
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	KN	KN
RSS4-12805G	2.80	2.95	3.02	2.62	2.70	5.70	5.20	1.62	2.85	6.100	1.40	4.00	0.90	0.70
RSS4-12806G	2.80	2.95	3.02	2.62	2.70	5.70	6.10	1.62	3.85	6.100	1.40	5.00	0.90	0.70
RSS4-12807G	2.80	2.95	3.02	2.62	2.70	5.70	7.10	1.62	4.83	6.100	1.40	6.00	0.90	0.70
RSS4-12808G	2.80	2.95	3.02	2.62	2.70	5.70	8.10	1.62	5.82	6.100	1.40	7.00	0.90	0.70
RSS4-12810G	2.80	2.95	3.02	2.62	2.70	5.70	10.10	1.62	7.80	6.100	1.40	9.00	0.90	0.70
RSS4-13005G	3.00	3.07	3.15	2.82	2.89	5.70	5.20	1.62	2.85	6.100	1.40	4.00	0.90	0.80
RSS4-13006G	3.00	3.07	3.15	2.82	2.89	5.70	6.10	1.62	3.85	6.100	1.40	5.00	0.90	0.80
RSS4-13007G	3.00	3.07	3.15	2.82	2.89	5.70	7.10	1.62	4.83	6.100	1.40	6.00	0.90	0.80
RSS4-13008G	3.00	3.07	3.15	2.82	2.89	5.70	8.10	1.62	5.82	6.100	1.40	7.00	0.90	0.80
RSS4-13009G	3.00	3.07	3.15	2.82	2.89	5.70	9.10	1.62	6.81	6.100	1.40	8.00	0.90	0.80
RSS4-13010G	3.00	3.07	3.15	2.82	2.89	5.70	10.10	1.62	7.80	6.100	1.40	9.00	0.90	0.80
RSS4-13013G	3.00	3.07	3.15	2.82	2.89	5.70	13.10	1.62	10.72	6.100	1.40	11.90	0.90	0.80
RSS4-13505G	3.50	3.50	3.58	3.10	3.17	5.80	5.20	1.62	2.85	6.100	1.40	4.00	1.00	1.00
RSS4-13506G	3.50	3.50	3.58	3.10	3.17	5.80	6.10	1.62	3.85	6.100	1.40	5.00	1.00	1.00
RSS4-13507G	3.50	3.50	3.58	3.10	3.17	5.80	7.10	1.62	4.83	6.100	1.40	6.00	1.00	1.00
RSS4-13508G	3.50	3.50	3.58	3.10	3.17	5.80	8.10	1.62	5.82	6.100	1.40	7.00	1.00	1.00
RSS4-13509G	3.50	3.50	3.58	3.10	3.17	5.80	9.10	1.62	6.81	6.100	1.40	8.00	1.00	1.00
RSS4-13510G	3.50	3.50	3.58	3.10	3.17	5.80	10.10	1.62	7.80	6.100	1.40	9.00	1.00	1.00
RSS4-13514G	3.50	3.50	3.58	3.10	3.17	5.80	14.10	1.62	11.76	6.100	1.40	12.90	1.00	1.00
RSS4-14005G	4.00	4.19	4.27	3.61	3.68	6.00	5.20	1.62	2.85	6.100	1.40	4.00	1.30	1.20
RSS4-14006G	4.00	4.19	4.27	3.61	3.68	6.00	6.10	1.62	3.85	6.100	1.40	5.00	1.30	1.20
RSS4-14007G	4.00	4.19	4.27	3.61	3.68	6.00	7.10	1.62	4.83	6.100	1.40	6.00	1.30	1.20
RSS4-14008G	4.00	4.19	4.27	3.61	3.68	6.00	8.10	1.62	5.82	6.100	1.40	7.00	1.30	1.20
RSS4-14009G	4.00	4.19	4.27	3.61	3.68	6.00	9.10	1.62	6.81	6.100	1.40	8.00	1.30	1.20
RSS4-14010G	4.00	4.19	4.27	3.61	3.68	6.00	10.10	1.62	7.80	6.100	1.40	9.00	1.30	1.20
RSS4-14012G	4.00	4.19	4.27	3.61	3.68	6.00	12.10	1.62	9.78	6.100	1.40	11.00	1.30	1.20

Part Number Call and Explanation

PART NUMBER EXAMPLE – RS - S4 - 1 - 28 - 05 - G

RS	HYDRASPEED - R
S4	STEEL
1	HEAD TYPE DOME
28	SIZE 2.8MM
05	LENGTH C
G	ZINC PLATED

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AVLOCK INTERNATIONAL
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Hysert

Product Description & Features

Hysert is a blind Speed Fastening System has a threaded stand-off pillar for PCBs. The internal threads allows for a threaded part to be inserted. The Avert Speed Fastening system is available in a variety of stand-off heights to suit your individual needs and will fit an array of board thicknesses.

Key features and benefits

- Internally threaded bore takes a threaded part e.g. D-subminiature connectors
- Available in many stand-off heights to accommodate a wide variety of components
- Can be used for board thicknesses of 0.8-2.0 mm (short spigot) or 0.8-2.4 mm max (long spigot)
- Suitable as a female mating bush for D-subminiature connectors

Assembly materials

Hysert can be used to fasten:

- Metal to metal
- Metal to plastic

Assembly applications

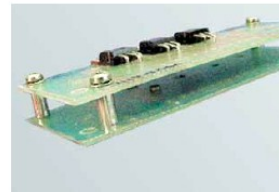
- Aluminium geartrays and extrusions
- D-connectors
- PCBs
- Telecommunications equipment

Specifications

- Sizes: M2.5 X 0.45 and M3 X 0.5 threads
- Material: Tin plated* brass



DB25 subminiature connector
4.40 UNC female

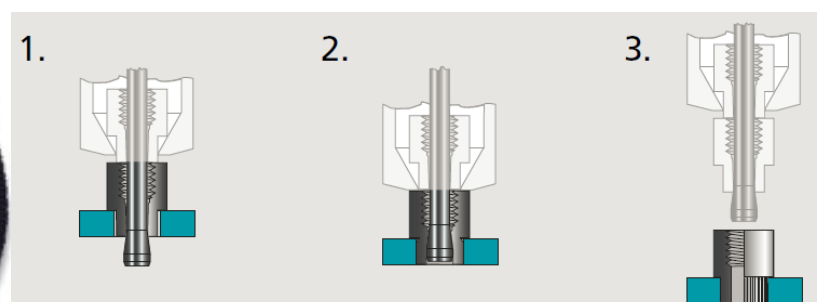


Installation Equipment

- The pictures below shows Avlock installation equipment which can be use to place Hysert fasteners.



Typical placing sequence



Technical Data Sheet

Hysert - HSB9

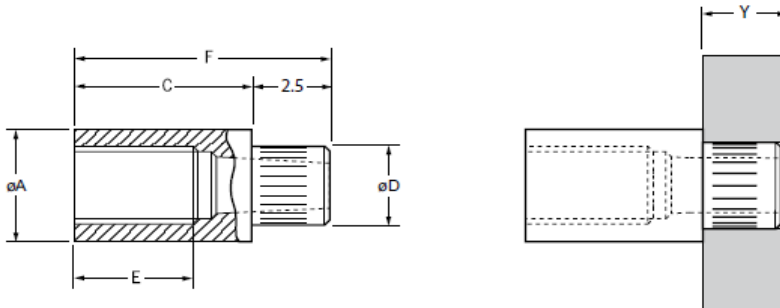
MATERIAL

HEAD TYPE: LONG SPIGOT

BODY: BRASS

FINISH

BODY: TIN PLATED



All Dimension are in millimeters

Avlock	Size	Y		Hole Size		A	C	D	E	F	Torck To Turn
Part Number		Max.	Min.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Nm
HSB9-92505T	M2.5 x 0.45	0.80	2.40	2.70	2.80	4.05	5.50	2.69	3.40	9.50	0.96
HSB9-92506T	M2.5 x 0.46	0.80	2.40	2.70	2.80	4.05	6.00	2.69	3.90	10.00	0.96
HSB9-92507T	M2.5 x 0.47	0.80	2.40	2.70	2.80	4.05	7.00	2.69	4.90	11.00	0.96
HSB9-92508T	M2.5 x 0.48	0.80	2.40	2.70	2.80	4.05	8.00	2.69	5.90	12.00	0.96
HSB9-92509T	M2.5 x 0.49	0.80	2.40	2.70	2.80	4.05	9.00	2.69	5.90	13.00	0.96
HSB9-93005T	M3 x 0.5	0.80	2.40	3.30	3.40	4.85	5.50	3.28	3.40	9.50	1.52
HSB9-93006T	M3 x 0.6	0.80	2.40	3.30	3.40	4.85	6.00	3.28	3.90	10.00	1.52
HSB9-93007T	M3 x 0.7	0.80	2.40	3.30	3.40	4.85	7.00	3.28	4.90	11.00	1.52
HSB9-93008T	M3 x 0.8	0.80	2.40	3.30	3.40	4.85	8.00	3.28	5.90	12.00	1.52
HSB9-93009T	M3 x 0.9	0.80	2.40	3.30	3.40	4.85	9.00	3.28	5.90	13.00	1.52

Part Number Call and Explanation

PART NUMBER EXAMPLE – HS - B9 - 9- 25- 05 - T

HS	HYSSERT
B9	BRASS
9	HEAD TYPE LONG SPIGOT
25	SIZE 2.5 MM
05	LENGTH C
T	TIN PLATED

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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Technical Data Sheet

MATERIAL

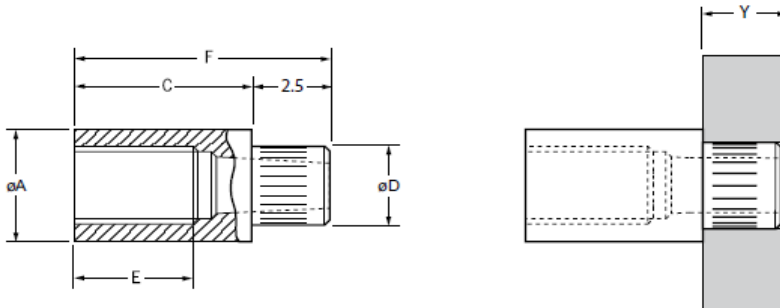
HEAD TYPE: SHORT SPIGOT

BODY: BRASS

FINISH

BODY: TIN PLATED

Hysert - HSB9



All Dimension are in millimeters

Avlock	Size	Y		Hole Size		A	C	D	E	F	Torck To Turn
Part Number		Max.	Min.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Nm
HSB9-82505T	M2.5 X 0.45	0.80	2.00	2.70	2.80	4.05	5.50	2.69	3.40	8.00	0.85
HSB9-82506T	M2.5 X 0.46	0.80	2.00	2.70	2.80	4.05	6.00	2.69	3.90	8.50	0.85
HSB9-82507T	M2.5 X 0.47	0.80	2.00	2.70	2.80	4.05	7.00	2.69	4.90	9.50	0.85
HSB9-82508T	M2.5 X 0.48	0.80	2.00	2.70	2.80	4.05	8.00	2.69	5.90	10.50	0.85
HSB9-82509T	M2.5 X 0.49	0.80	2.00	2.70	2.80	4.05	9.00	2.69	5.90	11.50	0.85
HSB9-83005T	M3 X 0.5	0.80	2.00	3.30	3.40	4.85	5.50	3.28	3.40	8.00	1.38
HSB9-83006T	M3 X 0.6	0.80	2.00	3.30	3.40	4.85	6.00	3.28	3.90	8.50	1.38
HSB9-83007T	M3 X 0.7	0.80	2.00	3.30	3.40	4.85	7.00	3.28	4.90	9.50	1.38
HSB9-83008T	M3 X 0.8	0.80	2.00	3.30	3.40	4.85	8.00	3.28	5.90	10.50	1.38
HSB9-83009T	M3 X 0.9	0.80	2.00	3.30	3.40	4.85	9.00	3.28	5.90	11.50	1.38

Part Number Call and Explanation

PART NUMBER EXAMPLE – HS - B9 - 8- 25- 05 - T

HS	HYSSERT
B9	BRASS
8	HEAD TYPE SHORT SPIGOT
25	SIZE 2.5 MM
05	LENGTH C
T	TIN PLATED

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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Hylug

Product Description & Features

Hylug is a blind Speed Fastening System easy to solder post designed for use in terminals and for wire wrapping. The Hylug rivets rolled shank ensures secure placement in the PCB. Available in diameters as small as 1.6mm giving this rivet a wide variety of applications.

Key features and benefits

- Rolled/knurlled shank ensures secure placement in the PCB
- Suitable for wire wrapping or a test point for CRO tubes
- Available with diameters as small as 1.6 mm for miniature assemblies

Assembly materials

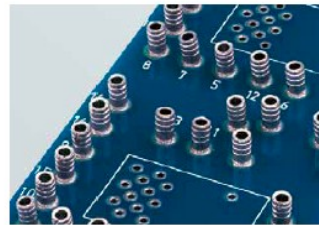
Hylug can be used to fasten:

- Terminal posts
- Wire wrap

Assembly applications

- Automotive
- Electronic components
- Sheet metal
- Electrical engineering
- Domestic appliances
- Furniture
- General light fabrication

Terminal post - wire wrap



Specifications

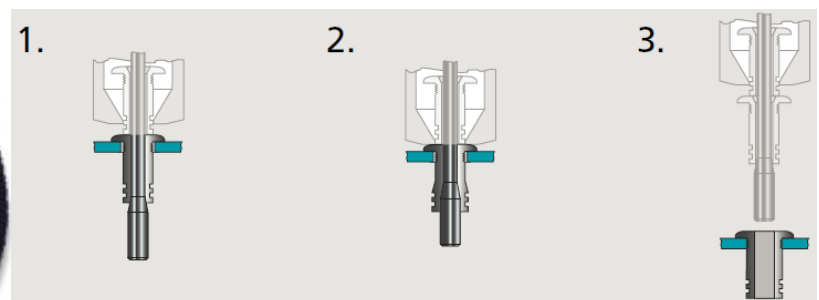
- Sizes: 1.6mm, 2.4mm and 3.2mm (1/16", 3/32" and 1/8")
- Materials: Brass
- Head forms: Dome

Installation Equipment

- The pictures below shows Avlock installation equipment which can be use to place Hylug fasteners



Typical placing sequence



Technical Data Sheet

Hylug - HLB9

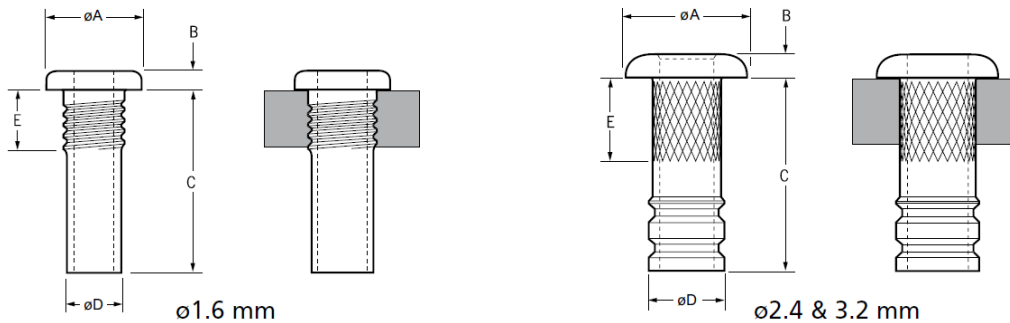
MATERIAL

HEAD TYPE: DOME HEAD

BODY: BRASS

FINISH

BODY: TIN PLATED



All Dimension are in millimeters

Avlock	Size	Hole Size		ϕA	B	C	ϕD	E	No. of
Part Number	Nom ϕ	Max.	Min.	Max.	Max.	Max.	Max.	Max.	Grooves
HLB9-11604T	1.60	1.80	1.93	2.80	0.61	4.11	1.79	2.04	4.00
HLB9-11606T	1.60	1.80	1.93	2.80	0.61	6.51	1.79	2.04	4.00
HLB9-12408T	2.40	2.62	2.74	4.15	0.94	8.36	2.60	3.43	2.00
HLB9-12410T	2.40	2.62	2.74	4.15	0.94	9.96	2.60	3.43	3.00
HLB9-13210T	3.20	3.38	3.51	5.52	1.15	9.96	3.36	3.43	3.00

Part Number Call and Explanation

PART NUMBER EXAMPLE – HL– B9 – 1 – 16 – 04 – T

HL	HYLUG
B9	BRASS
1	HEAD TYPE DOME
16	SIZE 1.6MM
04	LENGTH C
T	TIN PLATED

Data shown is subject to change without prior notice as a result of continuous product development and improvement. Rev



AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

A world map with a light gray background. Fifteen countries are highlighted with red stars. The stars are located in: North America (USA, Canada), South America (Brazil), Europe (UK, France, Germany, Italy, Spain, Portugal, Greece, Turkey, Russia), Africa (Egypt, Sudan, Ethiopia, Kenya, Tanzania, Uganda, Rwanda, Burundi, DRC, Zaire, Angola, Namibia, Botswana, Zimbabwe, Mozambique, Swaziland, Lesotho, South Africa), Asia (China, India, Pakistan, Bangladesh, Nepal, Bhutan, Sri Lanka, Thailand, Vietnam, Laos, Cambodia, Myanmar, Indonesia, Philippines, Malaysia, Singapore, Brunei, Timor-Leste, East Timor, Papua New Guinea, Solomon Islands, Vanuatu, Fiji, Tonga, Samoa, Kiribati, Tuvalu, Nauru, Micronesia, Marshall Islands, Palau, Christmas Island, Johnston Island, Line Islands, and Tokelau), and Oceania (Australia, New Zealand, Cook Islands, Niue, Tokelau, and the Line Islands).

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