



ENGINEERED RIVETING, SWAGING & AUTOMOTIVE FASTENING SYSTEMS

BREAKSTEM FASTENERS 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.

Break Stem Fasteners:

Break Stem Fasteners are used where access is limited to one side of work surface only, available in various types & different materials. They are widely used in all sheet metal industry and finding more and more applications in plastics & composites.

Applications:



White Goods
Industry



Automotive
Industry



Truck & Bus Body
Building Industry



Telecommunication
Industry



Building and
Construction
Industry



Sr.No.	Description		Pg.No
1		HYDRAVEX: Multi-grip capability, Good hole fill, Retained stem, Large blind side bearing area.	4-12
2		HYDRANOX: High shear and tensile strength, Retained stem Large blind side bearing area	13-14
3		HYDRABULB: High shear and tensile strength, High corrosion resistance, Retained stem Large blind side bearing area.	15-16
4		HYDRASOFT: Split tail formation for plastic and low strength materials Multi-grip capability, Retained stem.	17-19
5		HYDRATITE: Split tail formation for thin sheet and low strength materials Multi-grip capability, Good clamp up.	20-21
6		HYDRAPEEL: 'Peel-type' tail formation for joining wood to metal, Wide grip range Retained stem.	22-23
7		HYDRAHEM: Very high shear and tensile strength, Large blind side bearing area, Interference lock via splined stem.	24-26
8		HYBOLT MB: Multi-grip capability fully sealed fastener visible lock, excellent hole fill, Mechanically locked stem Good sheet take-up performance.	27-33
9		HYBOLT IL: Multi-grip capability, Fully sealed fastener Excellent hole fill, Mechanically locked stem Good sheet take-up performance.	34-37
10		HYDRASEAL: Fully sealed fasteners, Good hole fill, Retained stem, Wide range of materials and sizes.	38-44
11		HYDRAPOP: Low cost standard rivet, Wide range of materials and sizes, Quick installation, Increased stem retention.	45-61



Hydravex

Product Description & Features

The **Hydravex Rivet** is a **multi-grip, high-strength breakstem fastener**. Produced in either Aluminium Steel or stainless steel to meet your requirements, this blind rivet **can replace several grip fasteners**. With good hole fill and a large bulbing tail, this rivet is ideal for use on **thin sheet materials**.

Key features and benefits

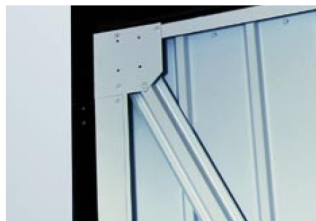
- Multi-grip capability
- Superior hole fill
- High shear and tensile strength
- Provides a large blind side bearing area against the rear sheet
- Retained stem
- Stainless steel option provides high corrosion resistance and is ideal for applications requiring elevated temperatures
- Wide choice of installation tools
- One fastener can be used to replace several standard grip fasteners
- Accommodates wide variations in material thickness
- Reduced fastener inventory and simpler stock control
- Spreads the tail bearing load/clamp on the rear sheet
- Ideal for use in thin sheet materials
- Compensates for irregular, oversized, slotted or misaligned holes
- Can stop sheet movement in non-standard holes
- Provides strong, vibration resistant joints
- No damage, electrical problems or rattling due to loose stem.

Assembly materials

Hydravex can be used to fasten:

- Metal to metal
- Plastic to plastic
- Metal to plastic
- Metal rear sheet

Garage doors



Domestic heating systems



Car chassis



Assembly applications

- Automotive
- Commercial vehicles
- Domestic appliances
- Electronics
- Electrical equipment
- General light industrial
- Heating and ventilating



Specifications

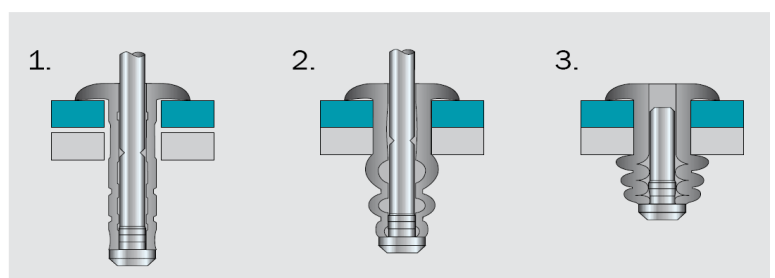
- Sizes: 3.2mm to 4.8mm (1/8" to 3/16")
- Materials: Aluminium, Steel and stainless steel
- Head forms: Dome, countersunk and large flange

Installation Equipment

The pictures below show some Avlock installation equipment's which can be used to place Hydravex fasteners.



Typical placing sequence



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Technical Data Sheet

Hydravex - HVA24

MATERIAL

HEAD TYPE: COUNTERSUNK

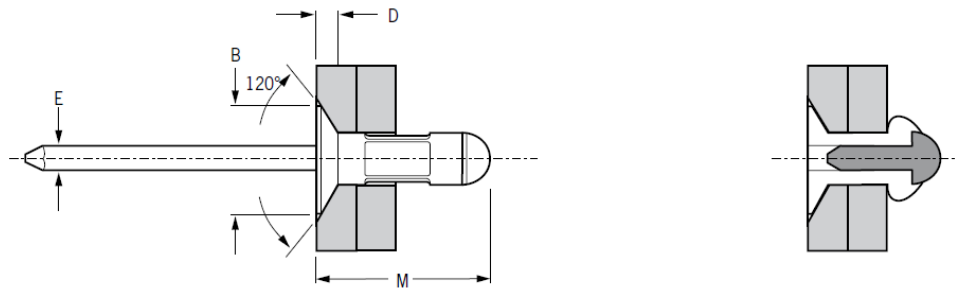
BODY: ALUMINIUM ALLOY 5052

MANDREL: STEEL

FINISH

BODY: NATURAL

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D	E	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.		
HVA24-23210NG	3.20 X 10.00	2.40	6.30	3.30	3.40	12.20	5.50	1.30	1.80	0.70	0.90
HVA24-23211NG	3.20 X 11.00	4.00	7.90	3.30	3.40	13.40	5.50	1.30	1.80	0.70	1.00
HVA24-23213NG	3.20 X 13.00	5.50	9.50	3.30	3.40	14.80	5.50	1.30	1.80	0.70	1.00
HVA24-24011NG	4.00 X 11.00	2.80	7.90	4.10	4.20	14.30	6.50	1.40	2.20	1.10	1.30
HVA24-24012NG	4.00 X 12.00	3.60	8.80	4.10	4.20	15.10	6.50	1.40	2.20	1.10	1.30
HVA24-24812NG	4.80 X 12.00	3.20	7.90	4.90	5.00	15.50	9.00	1.80	2.90	1.50	2.30
HVA24-24817NG	4.80 X 17.00	6.30	12.70	4.90	5.00	20.40	9.00	1.80	2.90	1.30	2.30

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HV - A24 - 2 - 32 - 10 - N - G	
HV	HYDRAVEX
A24	ALUMINIUM ALLOY 5052 / STEEL
2	HEAD TYPE COUNTERSUNK
32	RIVET SHELL DIAMETER 3.2 MM
10	RIVET SHELL LENGTH
N	SHELL FINISH NATURAL
G	STEM FINISH ZINC PLATED

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Technical Data Sheet

Hydravex - HVA24

MATERIAL

HEAD TYPE: LARGE FLANGE

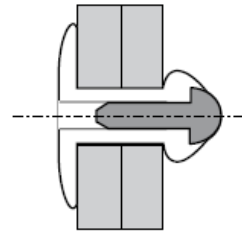
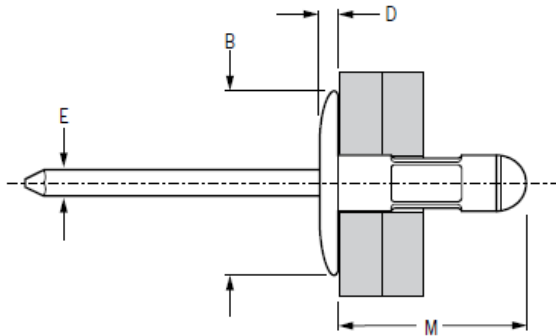
BODY: ALUMINIUM ALLOY 5052

MANDREL: STEEL

FINISH

BODY: NATURAL

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D	E	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.		
HVA24-34810NG	4.80 X 10.00	1.60	6.30	4.90	5.00	13.90	16.20	2.20	2.90	1.50	2.10
HVA24-34813NG	4.80 X 13.00	3.20	9.30	4.90	5.00	17.00	16.20	2.20	2.90	1.30	2.10
HVA24-34815NG	4.80 X 15.00	4.80	11.10	4.90	5.00	18.70	16.20	2.20	2.90	1.30	2.10
HVA24-34817NG	4.80 X 17.00	6.40	12.70	4.90	5.00	20.20	16.20	2.20	2.90	1.30	2.10
HVA24-34825NG	4.80 X 25.00	12.70	19.80	4.90	5.00	28.20	16.20	2.20	2.90	1.40	2.10

Special / Custom made sizes also available on request.

Part Number Call and Explanation

PART NUMBER EXAMPLE – HV - A24 - 3 - 48 - 10 - N - G

HV	HYDRAVEX
A24	ALUMINIUM ALLOY 5052 / STEEL
3	HEAD TYPE LARGE FLANGE
48	RIVET SHELL DIAMETER 4.8 MM
10	RIVET SHELL LENGTH
N	SHELL FINISH NATURAL
G	STEM FINISH ZINC PLATED

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Technical Data Sheet

Hydravex - HVA27

MATERIAL

HEAD TYPE: LARGE FLANGE

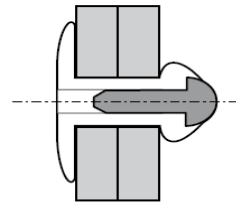
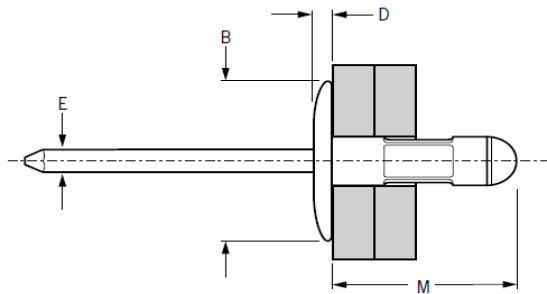
BODY: ALUMINIUM ALLOY 5052

MANDREL: STAINLESS STEEL

FINISH

BODY: NATURAL

MANDREL: NATURAL



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D	E	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.		
HVA27-34810NN	4.80 X 10.00	1.60	6.30	4.90	5.00	13.60	16.20	2.20	2.90	1.40	2.00
HVA27-34817NN	4.80 X 17.00	6.40	12.70	4.90	5.00	19.70	16.20	2.20	2.90	1.20	2.00
HVA27-34831NN	4.80 X 31.00	12.70	19.80	4.90	5.00	27.60	16.20	2.20	2.90	1.30	2.00

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HV - A - 27 - 3 - 48 - 10 - N - N	
HV	HYDRAVEX
A27	ALUMINIUM ALLOY 5052/ STAINLESS STEEL
3	HEAD TYPE LARGE FLANGE
48	RIVET SHELL DIAMETER 4.8 MM
10	RIVET SHELL LENGTH
N	SHELL FINISH NATURAL
N	STEM FINISH NATURAL

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Technical Data Sheet

Hydravex - HVA24

MATERIAL

HEAD TYPE: DOME HEAD

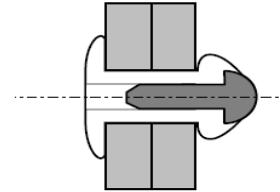
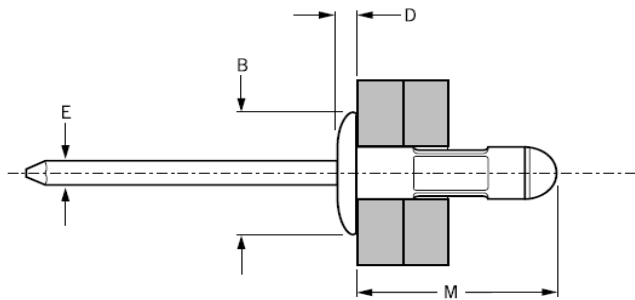
BODY: ALUMINIUM ALLOY 5052

MANDREL: STEEL

FINISH

BODY: NATURAL

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D	E	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.		
HVA24-13006NG	3.00 X 06.00	0.80	4.30	3.10	3.30	9.10	6.70	1.30	1.70	0.70	0.90
HVA24-13208NG	3.20 X 08.00	0.80	4.80	3.30	3.40	10.40	6.70	1.30	1.80	0.70	1.00
HVA24-13210NG	3.20 X 10.00	1.20	6.30	3.30	3.40	12.00	6.70	1.30	1.80	0.70	1.00
HVA24-13211NG	3.20 X 11.00	4.00	7.90	3.30	3.40	13.60	6.70	1.30	1.80	0.70	1.00
HVA24-13213NG	3.20 X 13.00	5.50	9.50	3.30	3.40	16.00	6.70	1.30	1.80	0.70	1.00
HVA24-14006NG	4.00 X 06.00	0.50	3.20	4.10	4.20	9.30	8.20	1.60	2.20	1.10	1.60
HVA24-14008NG	4.00 X 08.00	0.80	4.70	4.10	4.20	10.70	8.20	1.60	2.20	1.10	1.60
HVA24-14010NG	4.00 X 10.00	1.20	6.30	4.10	4.20	12.50	8.20	1.60	2.20	1.00	1.60
HVA24-14013NG	4.00 X 13.00	4.00	9.50	4.10	4.20	16.20	8.20	1.60	2.20	1.00	1.60
HVA24-14017NG	4.00 X 17.00	6.40	12.70	4.10	4.20	19.60	8.20	1.60	2.20	1.00	1.60
HVA24-14810NG	4.80 X 10.00	1.60	6.30	4.90	5.00	13.90	10.10	1.80	2.90	1.50	2.30
HVA24-14815NG	4.80 X 15.00	4.80	11.10	4.90	5.00	18.70	10.10	1.80	2.90	1.30	2.30
HVA24-14817NG	4.80 X 17.00	4.80	12.70	4.90	5.00	20.20	10.10	1.80	2.90	1.30	2.30
HVA24-14825NG	4.80 X 25.00	12.70	19.80	4.90	5.00	28.20	10.10	1.80	2.90	1.40	2.30

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HV - A - 24 - 1 - 32 - 06 - N - G	
HV	HYDRAVEX
A24	ALUMINIUM ALLOY 5052/STEEL
1	HEAD TYPE DOME
32	RIVET SHELL DIAMETER 3.2 MM
06	RIVET SHELL LENGTH
N	SHELL FINISH NATURAL
G	STEM FINISH ZINC PLATED

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Technical Data Sheet

Hydravex - HVA27

MATERIAL

HEAD TYPE: DOME HEAD

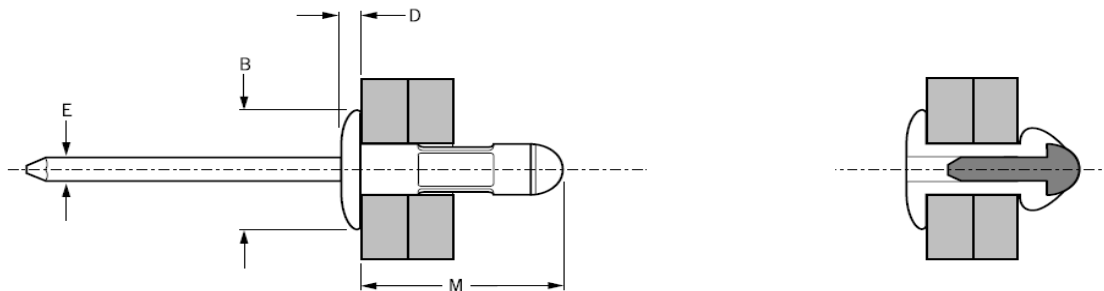
BODY: ALUMINIUM ALLOY 5052

MANDREL: STAINLESS STEEL

FINISH

BODY: NATURAL

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D	E	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.						
HVA27-13006NN	3.00 X 06.00	0.80	4.30	3.10	3.30	9.10	6.70	1.30	1.70	0.70	0.90
HVA27-13208NN	3.20 X 08.00	0.80	4.80	3.30	3.40	10.40	6.70	1.30	1.80	0.70	1.00
HVA27-13210NN	3.20 X 10.00	1.20	6.30	3.30	3.40	12.00	6.70	1.30	1.80	0.70	1.00
HVA27-13211NN	3.20 X 11.00	4.00	7.90	3.30	3.40	13.60	6.70	1.30	1.80	0.70	1.00
HVA27-13213NN	3.20 X 13.00	5.50	9.50	3.30	3.40	16.00	6.70	1.30	1.80	0.70	1.00
HVA27-14006NN	4.00 X 06.00	0.50	3.20	4.10	4.20	9.30	8.20	1.60	2.20	1.10	1.60
HVA27-14008NN	4.00 X 08.00	0.80	4.70	4.10	4.20	10.70	8.20	1.60	2.20	1.10	1.60
HVA27-14010NN	4.00 X 10.00	1.20	6.30	4.10	4.20	12.50	8.20	1.60	2.20	1.00	1.60
HVA27-14013NN	4.00 X 13.00	4.00	9.50	4.10	4.20	16.20	8.20	1.60	2.20	1.00	1.60
HVA27-14017NN	4.00 X 17.00	6.40	12.70	4.10	4.20	19.60	8.20	1.60	2.20	1.00	1.60
HVA27-14810NN	4.80 X 10.00	1.60	6.30	4.90	5.00	13.90	10.10	1.80	2.90	1.50	2.30
HVA27-14815NN	4.80 X 15.00	4.80	11.10	4.90	5.00	18.70	10.10	1.80	2.90	1.30	2.30
HVA27-14817NN	4.80 X 17.00	4.80	12.70	4.90	5.00	20.20	10.10	1.80	2.90	1.30	2.30
HVA27-14825NN	4.80 X 25.00	12.70	19.80	4.90	5.00	28.20	10.10	1.80	2.90	1.40	2.30

Special / Custom made sizes also available on request.

Part Number Call and Explanation

PART NUMBER EXAMPLE – HV - A27 - 1 - 32 - 06 - N - N

HV	HYDRAVEX
A27	ALUMINIUM ALLOY 5052 / STAINLESS STEEL
1	HEAD TYPE DOME
32	RIVET SHELL DIAMETER 3.2 MM
06	RIVET SHELL LENGTH
N	SHELL FINISH NATURAL
N	STEM FINISH NATURAL

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Website : www.avlock.co.in

Technical Data Sheet

Hydravex - HVS44

MATERIAL

HEAD TYPE: LARGE FLANGE

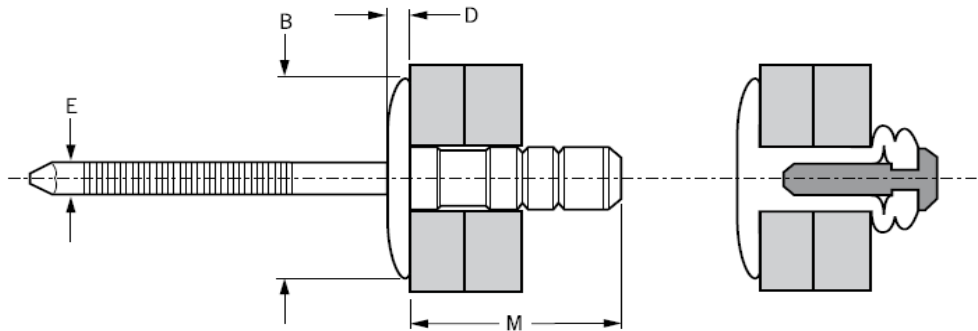
BODY: STEEL

MANDREL: STEEL

FINISH

BODY: ZINC PLATED

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D	E	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.						
HVS44-34811GG	4.80 X 11.00	1.50	6.35	4.90	5.00	13.80	16.20	2.10	3.00	2.60	2.90
HVS44-34814GG	4.80 X 14.00	1.50	9.00	4.90	5.00	17.10	16.20	2.10	3.00	2.60	2.90
HVS44-34817GG	4.80 X 17.00	6.30	12.70	4.90	5.00	20.10	16.20	2.10	3.00	2.60	2.90

Special / Custom made sizes also available on request.

Part Number Call and Explanation

PART NUMBER EXAMPLE – HV - S44 - 3 - 48 - 11 - G - G

HV	HYDRAVEX
S44	STEEL / STEEL
3	HEAD TYPE LARGE FLANGE
48	RIVET SHELL DIAMETER 4.8 MM
11	RIVET SHELL LENGTH
G	SHELL FINISH ZINC PLATED
G	STEM FINISH ZINC PLATED

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Technical Data Sheet

Hydravex - HVS44

MATERIAL

HEAD TYPE: COUNTERSUNK

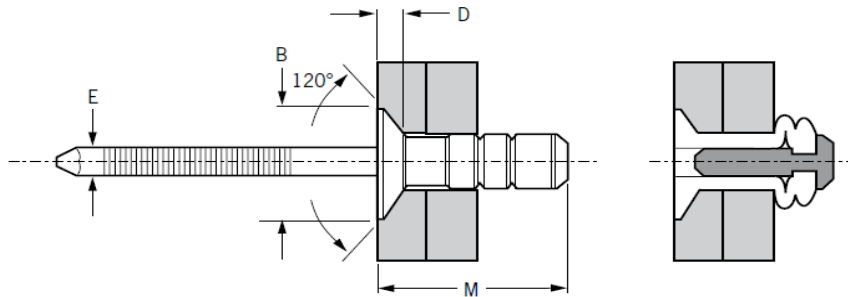
BODY: STEEL

MANDREL: STEEL

FINISH

BODY: ZINC PLATED

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D	E	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.		
HVS44-23211GG	3.20 X 11.00	1.00	6.00	3.30	3.40	14.00	6.00	1.00	2.20	0.90	1.17
HVS44-24811GG	4.80 X 11.00	2.36	6.35	4.90	5.00	13.70	8.90	1.40	3.00	2.00	2.89
HVS44-24814GG	4.80 X 14.00	2.36	9.52	4.90	5.00	17.00	8.90	1.40	3.00	2.00	2.89
HVS44-24817GG	4.80 X 17.00	6.35	12.70	4.90	5.00	20.10	8.90	1.40	3.00	2.00	2.89

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HV - S44 - 2 - 32 - 11 - G - G	
HV	HYDRAVEX
S44	STEEL / STEEL
2	HEAD TYPE COUNTERSUNK
32	RIVET SHELL DIAMETER 3.2 MM
11	RIVET SHELL LENGTH
G	SHELL FINISH ZINC PLATED
G	STEM FINISH ZINC PLATED

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Technical Data Sheet

Hydravex - HVX77

MATERIAL

HEAD TYPE: DOME HEAD

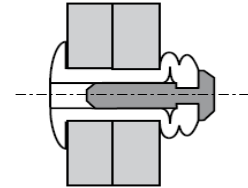
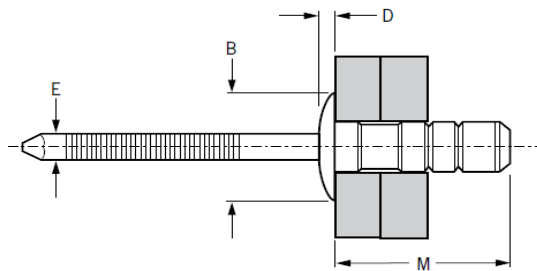
BODY: STAINLESS STEEL

MANDREL: STAINLESS STEEL

FINISH

BODY: POLISHED

MANDREL: NATURAL



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D	E	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.		
HVX77-13211PN	3.20 X 11.00	1.00	6.00	3.30	3.40	14.50	7.30	1.00	2.20	1.60	1.90
HVX77-14013PN	4.00 X 13.00	2.00	8.00	4.10	4.20	16.00	8.20	1.40	2.90	2.40	3.20
HVX77-14814PN	4.80 X 14.00	1.50	9.00	4.90	5.00	17.10	10.10	1.60	3.10	4.10	4.50

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HV - X77 - 1 - 32 - 11 - P - N	
HV	HYDRAVEX
X77	STAINLESS STEEL / STAINLESS STEEL
1	HEAD TYPE DOME
32	RIVET SHELL DIAMETER 3.2 MM
11	RIVET SHELL LENGTH
P	SHELL FINISH POLISHED
N	STEM FINISH NATURAL

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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Hydranox

Product Description & Features

Hydranox is a stainless steel rivet that offers high-strength fastening and ideal for thin sheet metals. The stainless steel breakstem provides excellent bulbing tail formation and high shear and tensile strength. This industrial fastener's stainless steel construction provides good corrosion resistance in applications subject to elevated temperatures.

Key features and benefits

- Ideal for use in thin sheet materials
- Compensates for irregular, oversized, slotted or misaligned holes
- Good hole fill
- Can stop movement in non-standard holes
- Provides strong, vibration resistant joints
- High corrosion resistance
- High shear and tensile strength
- Provides a large blind side bearing area against the rear sheet
- Retained stem
- Ideal for applications requiring elevated temperatures
- Spreads the tail bearing load/clamp load on the rear sheet
- No damage, electrical problems or rattling due to loose stems

Assembly materials

- Hydranox can be used to fasten:
- Metal to metal
- Plastic to plastic
- Metal to plastic
- Metal rear sheet

Assembly applications

- Automotive
- Cabinets and enclosures
- Heating and ventilating
- Telecommunications

Specifications

- Sizes: 3.2mm to 4.8mm (1/8" to 3/16")
- Materials: stainless steel
- Head forms: Dome Head

Installation Equipment

The pictures below show some Avlock installation equipment's which can be used to place Hydranox fasteners



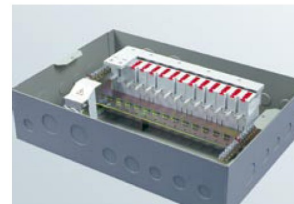
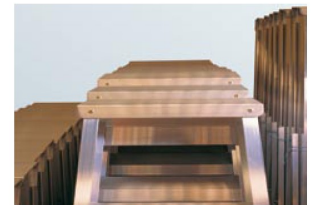
Telecommunications cabinets



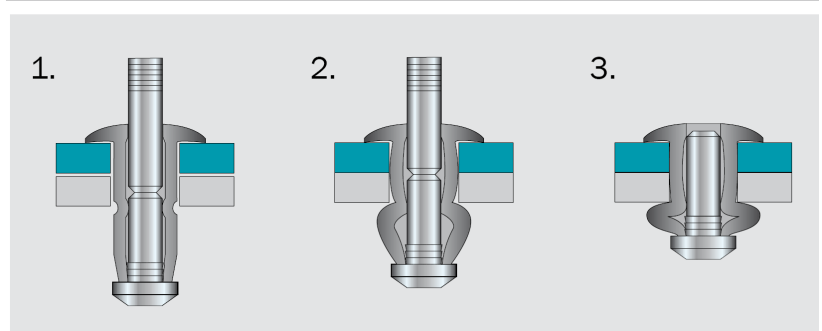
Electronic components



Ladders



Typical placing sequence



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AVLOCK INTERNATIONAL
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Technical Data Sheet

Hydranox- HNX77

MATERIAL

HEAD TYPE: DOME HEAD

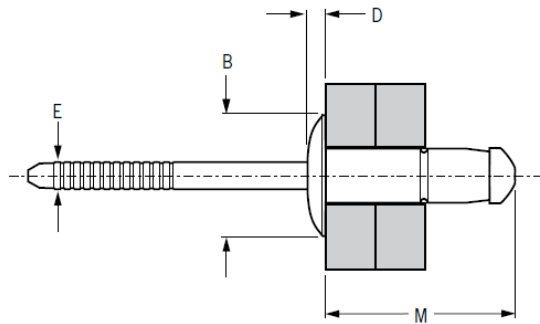
BODY: STAINLESS STEEL

MANDREL: STAINLESS STEEL

FINISH

BODY: POLISHED

MANDREL: NATURAL



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D	E	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.		
HNX77-13206PN	3.20 x 06.00	1.00	3.00	3.30	3.40	9.00	6.60	1.10	2.10	1.60	2.00
HNX77-13209PN	3.20 X 09.00	3.00	5.00	3.30	3.40	11.50	6.60	1.10	2.10	1.70	2.00
HNX77-13211PN	3.20 X 11.00	5.00	7.00	3.30	3.40	14.10	6.60	1.10	2.10	3.20	2.00
HNX77-14007PN	4.00 X 07.00	1.00	3.00	4.10	4.30	10.30	8.00	1.50	2.60	2.80	4.00
HNX77-14010PN	4.00 X 10.00	3.00	5.00	4.10	4.30	12.90	8.00	1.50	2.60	5.20	4.00
HNX77-14013PN	4.00 X 13.00	5.00	7.00	4.10	4.30	15.60	8.00	1.50	2.60	5.20	4.00
HNX77-14809PN	4.80 X 09.00	1.50	3.50	4.90	5.10	12.80	9.60	1.50	3.20	5.50	5.00
HNX77-14811PN	4.80 X 11.00	3.50	6.00	4.90	5.10	15.40	9.60	1.50	3.20	5.50	5.00
HNX77-14814PN	4.80 X 14.00	6.00	8.50	4.90	5.10	18.40	9.60	1.50	3.20	5.50	5.00

Special / Custom made sizes also available on request.

Part Number Call and Explanation

PART NUMBER EXAMPLE – HN - X77 - 1 - 32 - 06 - P - N

HN	HYDRANOX
X77	STAINLESS STEEL / STAINLESS STEEL
1	HEAD TYPE DOME
32	RIVET SHELL DIAMETER 3.2 MM
06	RIVET SHELL LENGTH
P	SHELL FINISH POLISHED
N	STEM FINISH NATURAL

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AVLOCK INTERNATIONAL
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Hydrabulb

Product Description & Features

Hydrabulb is a steel rivet that offers high-strength fastening and ideal for thin sheet metals. The steel breakstem provides excellent bulbing tail formation and high shear and tensile strength.

Key features and benefits

- Ideal for use in thin sheet materials
- Compensates for irregular, oversized, slotted or misaligned holes
- Good hole fill
- Can stop movement in non-standard holes
- Provides strong, vibration resistant joints
- High shear and tensile strength
- Provides a large blind side bearing area against the rear sheet
- Retained stem
- Ideal for applications requiring elevated temperatures
- Spreads the tail bearing load/clamp load on the rear sheet
- No damage, electrical problems or rattling due to loose stems

Assembly materials

Hydrabulb can be used to fasten:

- Metal to metal
- Plastic to plastic
- Metal to plastic
- Metal rear sheet

Assembly applications

- Automotive
- Cabinets and enclosures
- Heating and ventilating
- Telecommunications

Specifications

- Sizes: 3.2mm to 6.0mm
- Materials: Steel
- Head forms: Dome Head

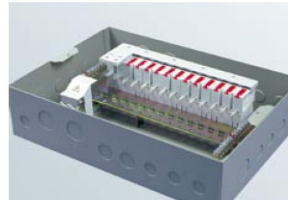
Telecommunications cabinets



Electronic components



Ladders

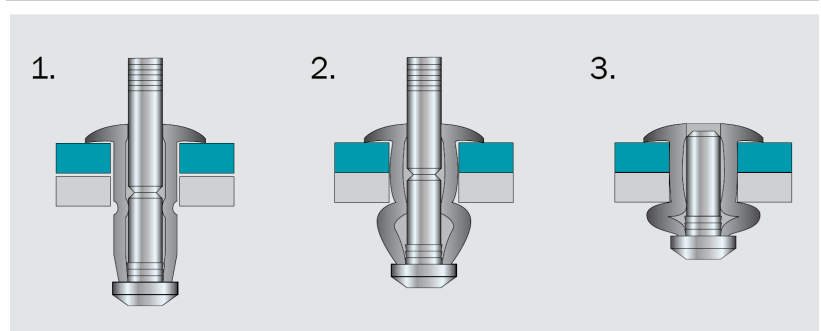


Installation Equipment

The pictures below show some Avlock installation equipment's which can be used to place Hydrabulb fasteners.



Typical placing sequence



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Technical Data Sheet

Hydrabulb - HBS44

MATERIAL

HEAD TYPE: DOME HEAD

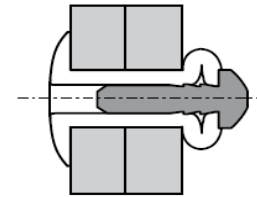
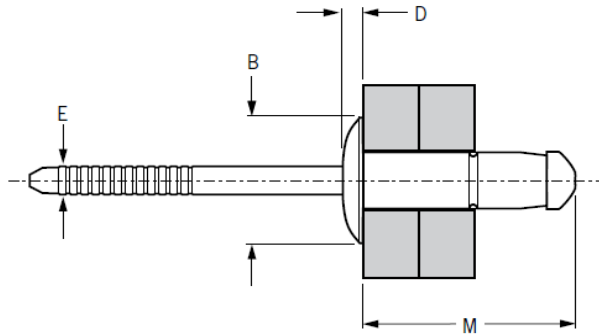
BODY: STEEL

MANDREL: STEEL

FINISH

BODY: ZINC PLATED

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D	E	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.						
HBS44-13206GG	3.20 x 06.00	1.00	3.00	3.30	3.40	9.10	6.80	1.40	2.00	1.20	1.30
HBS44-13209GG	3.20 x 09.00	3.00	5.00	3.30	3.40	11.70	6.80	1.40	2.00	1.70	1.30
HBS44-13211GG	3.20 x 11.00	5.00	7.00	3.30	3.40	14.00	6.80	1.40	2.00	2.50	1.30
HBS44-14007GG	4.00 x 07.00	1.00	3.00	4.10	4.30	10.40	8.00	1.40	2.60	2.40	2.80
HBS44-14010GG	4.00 x 10.00	3.00	5.00	4.10	4.30	12.90	8.00	1.40	2.60	3.50	2.80
HBS44-14013GG	4.00 x 13.00	5.00	7.00	4.10	4.30	15.70	8.00	1.40	2.60	4.10	2.80
HBS44-14015GG	4.00 x 15.00	7.00	9.00	4.10	4.30	18.10	8.00	1.40	2.60	3.30	2.50
HBS44-14809GG	4.80 x 09.00	1.50	3.50	4.90	5.10	12.10	9.60	1.50	3.20	3.60	3.80
HBS44-14811GG	4.80 x 11.00	3.50	6.00	4.90	5.10	14.70	9.60	1.50	3.20	4.20	3.80
HBS44-14814GG	4.80 x 14.00	6.00	8.50	4.90	5.10	17.60	9.60	1.50	3.20	5.60	3.80
HBS44-16008GG	6.00 x 08.00	1.50	4.00	6.10	6.30	14.00	12.30	2.10	4.00	4.20	5.40
HBS44-16010GG	6.00 x 10.00	3.00	6.00	6.10	6.30	17.00	12.30	2.10	4.00	5.40	5.40
HBS44-16013GG	6.00 x 13.00	6.00	9.00	6.10	6.30	20.00	12.30	2.10	4.00	8.50	5.40
HBS44-16015GG	6.00 x 15.00	9.00	12.00	6.10	6.30	23.00	12.30	2.10	4.00	8.50	5.40

Special / Custom made sizes also available on request.

Part Number Call and Explanation

PART NUMBER EXAMPLE – HB - S44 - 1 - 32 - 06 - G - G

HB	HYDRABULB
S44	STEEL / STEEL
1	HEAD TYPE DOME
32	RIVET SHELL DIAMETER 3.2 MM
06	RIVET SHELL LENGTH
G	SHELL FINISH ZINC PLATED
G	STEM FINISH ZINC PLATED

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AVLOCK INTERNATIONAL
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Hydrasoft

Product Description & Features

Hydrasoft breakstem fastener is designed with a split tail formation, providing a much larger blind side bearing area against the rear sheet. This also allows for a wide variation in material thickness. The Hydrasoft blind breakstem fastener is ideal for use with plastic and low strength material.

Key features and benefits

- Multi-grip capability
- Split tail formation provides a very large blind side bearing area against the rear sheet
- Retained stem
- Wide choice of installation tools
- One fastener can often be used to replace several standard grip fasteners
- Accommodates wide variations in material thickness
- Reduced fastener inventory and simpler stock control
- Spreads the tail bearing load/clamp load on the rear sheet
- No damage, electrical problems or rattling due to loose stems

Assembly materials

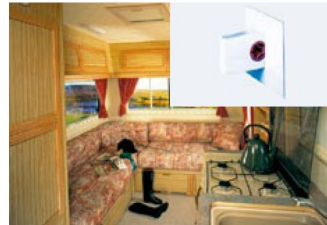
Hydrasoft can be used to fasten:

- Metal to metal
- Plastic to plastic
- Metal to plastic
- Metal rear sheet

Caravans/RV



Mobile homes



Speaker systems



Assembly applications

- Caravans
- Domestic appliances

Specifications

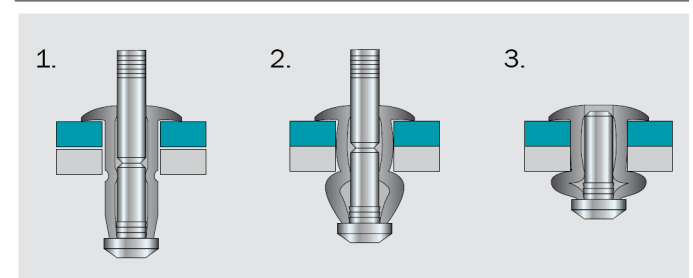
- Sizes: 4.0mm and 4.8mm (5/32" and 3/16")
- Material: Aluminum alloy
- Head form: Dome, large flange

Installation Equipment

- The pictures below show some Avlock installation equipment's which can be used to place Hydrasoft fasteners.



Typical placing sequence



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AVLOCK INTERNATIONAL
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Technical Data Sheet

Hydrasoft - HSA22

MATERIAL

HEAD TYPE: DOME HEAD

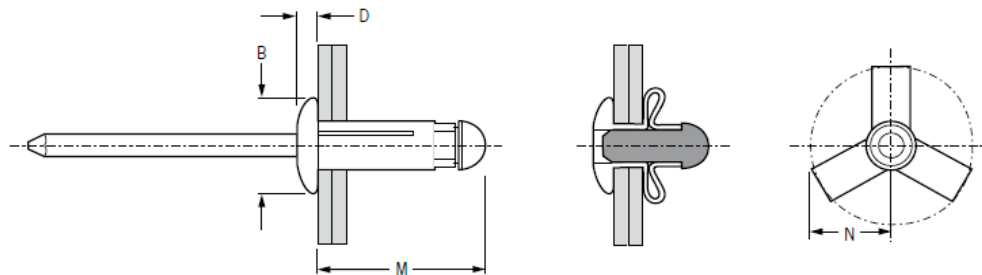
BODY: ALUMINIUM ALLOY 5052

MANDREL: ALUMINIUM ALLOY 5052

FINISH

BODY: NATURAL

MANDREL: NATURAL



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D	E	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.		
HSA22-14013NN	4.00 X 13.00	1.00	3.00	4.20	4.50	16.00	8.16	1.53	5.79	0.60	1.00
HSA22-14018NN	4.00 X 18.00	1.00	7.00	4.20	4.50	21.20	8.16	1.53	8.00	0.60	1.00
HSA22-14020NN	4.00 X 20.00	1.00	8.50	4.20	4.50	22.90	8.16	1.53	8.66	0.60	1.00
HSA22-14025NN	4.00 X 25.00	5.00	12.00	4.20	4.50	27.60	8.16	1.53	9.02	0.60	1.00
HSA22-14815NN	4.80 X 15.00	1.00	4.00	5.00	5.25	18.30	10.06	2.04	6.78	0.78	1.07
HSA22-14820NN	4.80 X 20.00	1.00	9.00	5.00	5.25	23.30	10.06	2.04	9.02	0.78	1.07
HSA22-14824NN	4.80 X 24.00	4.00	12.00	5.00	5.25	27.10	10.06	2.04	11.20	0.78	1.07

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HS - A22 - 1 - 40 - 13 - N - N	
HS	HYDRASOFT
A22	ALUMINIUM ALLOY 5052 / ALLUMINIUM ALLOY 5052
1	HEAD TYPE DOME
40	RIVET SHELL DIAMETER 4.0 MM
13	RIVET SHELL LENGTH
N	SHELL FINISH NATURAL
N	STEM FINISH NATURAL

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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Technical Data Sheet

Hydrasoft - HSA22

MATERIAL

HEAD TYPE: LARGE FLANGE

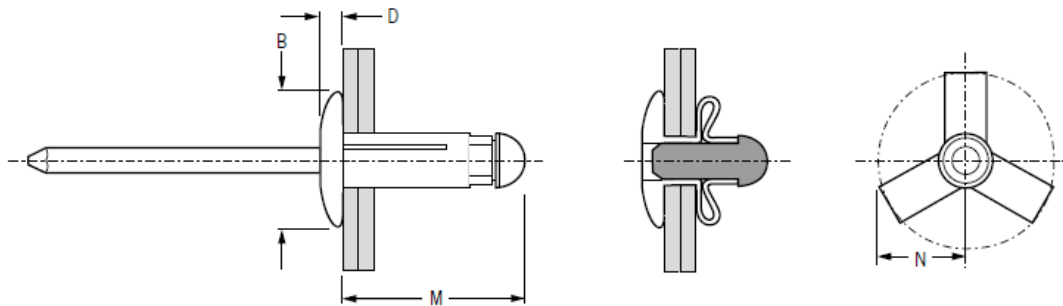
BODY: ALUMINIUM ALLOY 5052

MANDREL: ALUMINIUM ALLOY 5052

FINISH

BODY: NATURAL

MANDREL: NATURAL



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D	E	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.		
HSA22-34815NN	4.80 X 15.00	1.00	4.00	5.00	5.25	18.30	16.00	1.93	6.78	0.78	1.07
HSA22-34820NN	4.80 X 20.00	1.00	9.00	5.00	5.25	23.30	16.00	1.93	9.02	0.78	1.07

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HS - A22 - 3 - 48 - 15 - N - N	
HS	HYDRASOFT
A22	ALUMINIUM ALLOY 5052 / ALLUMINUM ALLOY 5052
3	HEAD TYPE LARGE FLANGE
48	RIVET SHELL DIAMETER 4.8 MM
15	RIVET SHELL LENGTH
N	SHELL FINISH NATURAL
N	STEM FINISH NATURAL

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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Hydratite

Product Description & Features

Hydratite is a aluminium rivet that has a large blind-side bearing area making it an ideal rivet for use in thin sheet or low strength materials. The structural Hydratite rivet contains a visible mechanical lock to give extra strength to the joint.

Key features and benefits

- Split tail formation spreads the tail bearing load/clamp load on the rear sheet
- Ideal for use in thin sheet materials offering high resistance to pull-out loads
- Multi-grip capability accommodates wide variations in material thickness
- Ideal for use in very soft or brittle materials
- Stem is mechanically locked into body providing very strong, vibration resistant joints
- Visible lock for quick and easy inspection
- Optional underhead washer provides a weather-proof seal

Assembly materials

Hydratite can be used to fasten:

- Metal to metal
- Plastic to plastic
- Metal to plastic

Assembly applications

- Domestic appliances
- Plastic components
- Automotive plastic assemblies
- Container
- Cladding
- Commercial vehicles

Specifications

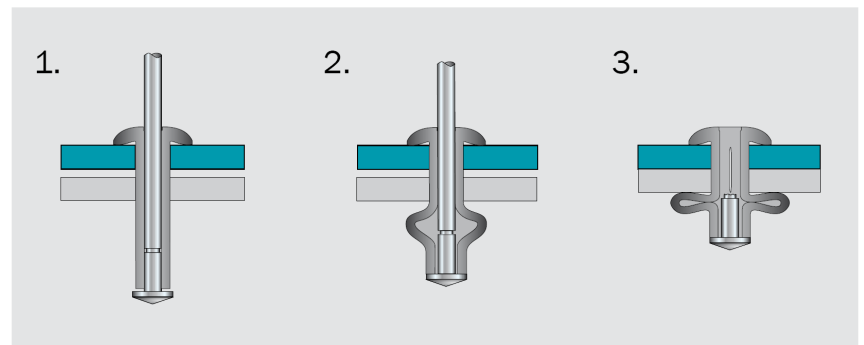
- Sizes: 4.8 mm and 6.4 mm (3/16" and 1/4")
- Material: Aluminum alloy
- Head form: Protruding

Installation Equipment

- The pictures below show some Avlock installation equipments which can be used to place Hydratite fasteners



Typical placing sequence



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AVLOCK INTERNATIONAL
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Technical Data Sheet

Hydratite - HTA22

MATERIAL

HEAD TYPE: DOME HEAD

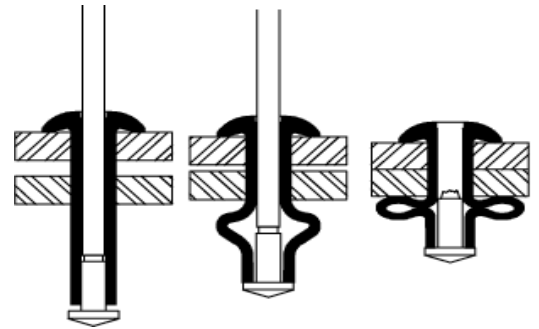
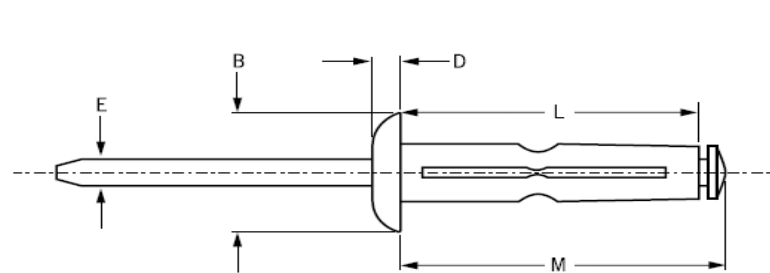
BODY: ALUMINIUM ALLOY 5052

MANDREL: ALUMINIUM ALLOY 5052

FINISH

BODY: WAX LUBRICATED

MANDREL: WAX LUBRICATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D	L	E	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	Max.		
HTA22-14823WW	4.80 X 23.00	1.27	6.35	5.18	5.31	25.40	11.30	2.37	22.72	2.90	1.30	1.70
HTA22-14825WW	4.80 X 25.00	4.75	9.53	5.18	5.31	27.81	11.30	2.37	25.13	2.90	1.30	1.70
HTA22-14828WW	4.80 X 28.00	9.53	14.27	5.18	5.31	30.94	11.30	2.37	28.25	2.90	1.30	1.70
HTA22-16423WW	6.40 X 23.00	1.52	6.35	6.40	6.65	26.47	14.22	3.00	23.50	3.84	1.90	2.60
HTA22-16427WW	6.40 X 27.00	4.75	9.53	6.40	6.65	29.64	14.22	3.00	26.67	3.84	1.90	2.60

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HT - A22 - 1 - 48 - 23 - W - W	
HT	HYDRATITE
A22	ALUMINIUM ALLOY 5052 / ALLUMINIUM ALLOY 5052
1	HEAD TYPE DOME
48	RIVET SHELL DIAMETER 4.8 MM
23	RIVET SHELL LENGTH
W	BODY FINISH WAX LUBRICATED
W	STEM FINISH WAX LUBRICATED

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AVLOCK INTERNATIONAL
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Hydrapeel

Product Description & Features

Hydrapeel Cost-effective and efficient method of attaching metal to wood or other soft material without through holes.

Key features and benefits

- 'Peel-type' tail formation makes it ideal for joining metal to wood, board or low density plastic.
- Large bearing surface expands into blind hole providing superior pull-out force.
- Ideal replacement for wood screws or self-tapping screws.
- Multi-grip capability accommodates wide variations in material thickness.

Assembly materials

Hydrapeel can be used to fasten:

- Wood
- Board
- low density plastic

Assembly applications

- Garage doors
- Furniture

Specifications

- Sizes: 4.3 mm and 4.8 mm (3/16")
- Materials: Steel
- Head forms: Dome

Installation Equipment

- The pictures below show some Avlock installation equipment's which can be used to place Hydrapeel fasteners.

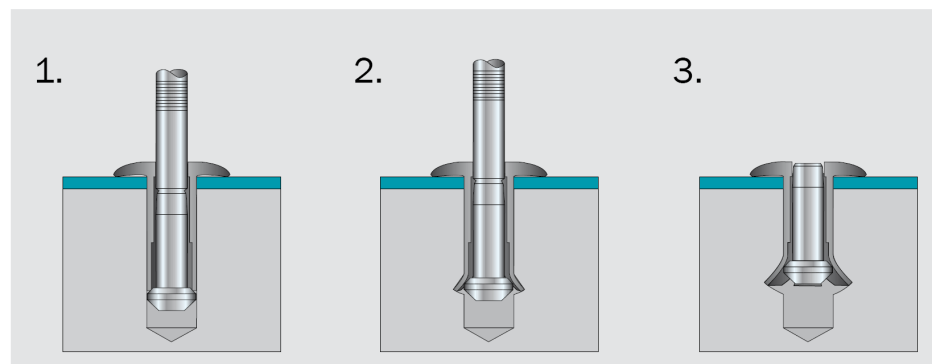
Garage doors



Furnitures



Typical placing sequence



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Technical Data Sheet

Hydrapeel - HES44

MATERIAL

HEAD TYPE: DOME HEAD

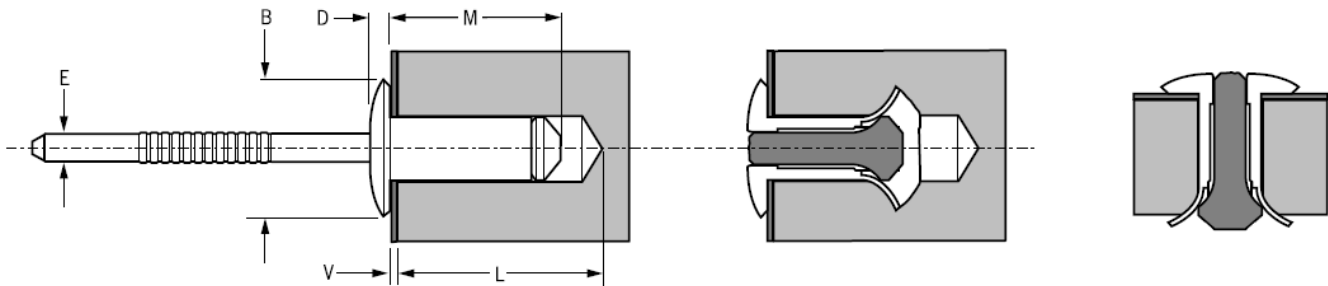
BODY: STEEL

MANDREL: STEEL

FINISH

BODY: ZINC PLATED

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D	L	E	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	Max.		
HES44-14308GG	4.30 X 08.00	4.30	4.40	10.90	8.20	1.30	2.60	1.27	0.25	11.20	12.20	0.50
HES44-14310GG	4.30 X 10.00	4.30	4.40	12.40	8.20	1.30	2.60	1.27	0.25	13.00	13.70	0.70
HES44-14316GG	4.30 X 16.00	4.30	4.40	18.70	8.20	1.30	2.60	7.62	0.25	12.70	20.10	0.70
HES44-14317GG	4.30 X 17.00	4.30	4.40	20.40	8.20	1.30	2.60	9.14	0.25	12.70	21.60	0.70
HES44-14811GG	4.80 X 11.00	4.80	4.90	14.30	10.20	2.10	2.90	3.05	0.25	10.40	15.70	1.00
HES44-14816GG	4.80 X 16.00	4.80	4.90	18.90	10.20	2.10	2.90	7.62	0.25	13.00	20.30	1.00

Special / Custom made sizes also available on request.

Part Number Call and Explanation

PART NUMBER EXAMPLE – HE - S44 - 1 - 43 - 08 - G-G

HE	HYDRAPEEL
S44	STEEL / STEEL
1	HEAD TYPE DOME
43	RIVET SHELL DIAMETER 4.3 MM
08	RIVET SHELL LENGTH
G	ZINC PLATED
G	ZINC PLATED

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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Hydrahem

Product Description & Features

Hydrahem fastener is a structural breakstem fastener with exceptional shear and tensile strength. The Hydrahem rivet features an interference lock ensuring the strongest vibration resistant joints. Creates a large blind side bearing area spreads the load and prevents creep.

Key features and benefits

- Exceptional shear and tensile strength
- Large blind side bearing area against the rear sheet
- Interference lock formed by a splined stem
- Spreads the tail bearing/clamp load on the rear sheet
- Ideal for thin sheet materials
- Provides strong, vibration resistant joints
- No damage, electrical problems or rattling due to loose stems

Assembly materials

Hydrahem can be used to fasten:

- Metal to metal
- Metal to plastic
- Thin sheet Thick Metal

Assembly applications

- Automotive
- Warehouse racking
- Ladders

Specifications

- Sizes: 6.4mm(1/4")
- Materials: Steel
- Head forms: Dome Head

Installation Equipment

- The pictures below show some Avlock installation equipment's which can be used to place Hydrahem fasteners.



Scaffold tower



Step ladder



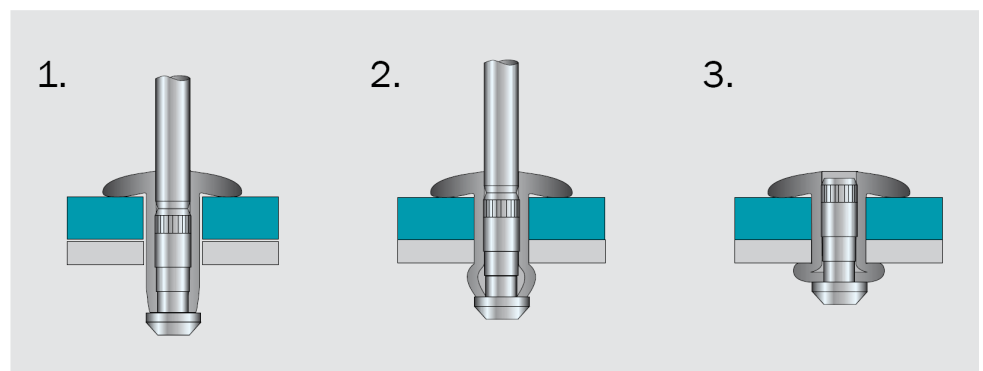
Car seat base



Vehicle mud flaps



Typical placing sequence



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AVLOCK INTERNATIONAL
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Technical Data Sheet

Hydrahem - HHS44

MATERIAL

HEAD TYPE: DOME HEAD

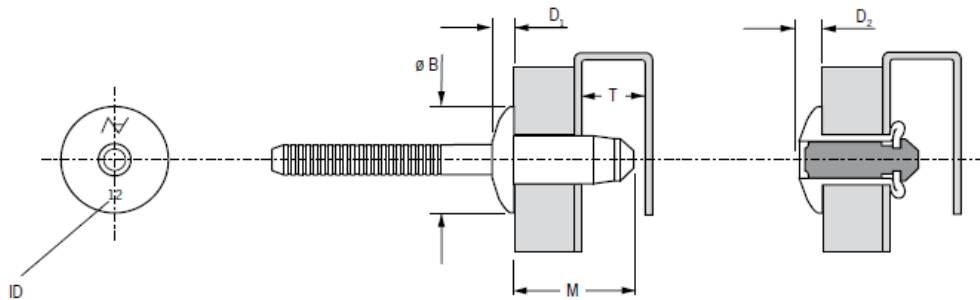
BODY: STEEL

MANDREL: STEEL

FINISH

BODY: ZINC PLATED

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		ID	M	B	D1	T	D2	Shear KN
		Min.	Max.	Min.	Max.							
HHS44-16409GG	6.40 X 09.00	1.50	3.50	6.70	6.90	12.00	13.70	13.40	2.70	12.20	3.40	10.50
HHS44-16410GG	6.40 X 10.00	2.80	4.80	6.70	6.90	13.00	15.00	13.40	2.70	12.20	3.40	12.00
HHS44-16411GG	6.40 X 11.00	3.35	5.35	6.70	6.90	14.00	15.60	13.40	2.70	12.20	3.40	12.50
HHS44-16412GG	6.40 X 12.00	4.80	6.80	6.70	6.90	15.00	17.00	13.40	2.70	12.20	3.40	12.50
HHS44-16413GG	6.40 X 13.00	6.80	8.80	6.70	6.90	17.00	19.00	13.40	2.70	12.20	3.40	14.00
HHS44-16414GG	6.40 X 14.00	7.50	9.50	6.70	6.90	18.00	19.70	13.40	2.70	12.20	3.40	15.00
HHS44-16415GG	6.40 X 15.00	8.80	10.80	6.70	6.90	19.00	21.00	13.40	2.70	12.20	3.40	16.00
HHS44-16417GG	6.40 X 17.00	10.80	12.80	6.70	6.90	21.00	23.00	13.40	2.70	12.20	3.40	16.00

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HH - S44 - 1 - 64 - 09 - G - G	
HH	HYDRAHEM
S44	STEEL / STEEL
1	HEAD TYPE DOME
64	RIVET SHELL DIAMETER 6.4 MM
09	RIVET SHELL LENGTH
G	SHELL FINISH ZINC PLATED
G	STEM FINISH ZINC PLATED

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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Technical Data Sheet

Hydrahem - HHA25

MATERIAL

HEAD TYPE: DOME HEAD

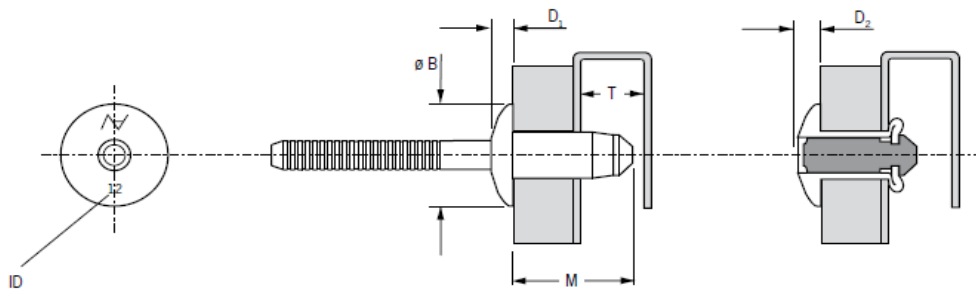
BODY: ALUMINIUM ALLOY 5052

MANDREL: ALUMINIUM ALLOY 5056

FINISH

BODY: NATURAL

MANDREL: NATURAL



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		ID	M	B	D1	T	D2	Shear KN
		Min.	Max.	Min.	Max.							
HHA25-16409NN	6.40 X 09.00	1.50	3.50	6.70	6.90	12.00	13.70	13.40	2.70	12.20	3.40	5.00
HHA25-16410NN	6.40 X 10.00	2.80	4.80	6.70	6.90	13.00	15.00	13.40	2.70	12.20	3.40	6.00
HHA25-16411NN	6.40 X 11.00	3.35	5.35	6.70	6.90	14.00	15.60	13.40	2.70	12.20	3.40	6.20
HHA25-16412NN	6.40 X 12.00	4.80	6.80	6.70	6.90	15.00	17.00	13.40	2.70	12.20	3.40	6.50
HHA25-16413NN	6.40 X 13.00	6.80	8.80	6.70	6.90	17.00	19.00	13.40	2.70	12.20	3.40	7.00
HHA25-16415NN	6.40 X 15.00	8.80	10.80	6.70	6.90	19.00	21.00	13.40	2.70	12.20	3.40	7.00
HHA25-16417NN	6.40 X 17.00	10.80	12.80	6.70	6.90	21.00	23.00	13.40	2.70	12.20	3.40	7.00

Special / Custom made sizes also available on request.

Part Number Call and Explanation

PART NUMBER EXAMPLE – HH - A25 - 1 - 64 - 09 - N - N

HH	HYDRAHEM
A25	ALLUMINIUM ALLOY 5052 / ALLUMINIUM ALLOY 5056
1	HEAD TYPE DOME
64	RIVET SHELL DIAMETER 6.4 MM
09	RIVET SHELL LENGTH
N	SHELL FINISH NATURAL
N	STEM FINISH NATURAL

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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Hybolt MB

Product Description & Features

The Hybolt MB multi-grip structural rivet is a high strength structural blind rivet with a locked stem and a positive hole fill for use in heavy duty applications. Hybolt MB blind rivets are designed and developed for demanding applications where safety and performance is paramount to the customer demands.

Key features and benefits

- Multi-grip capability
- High shear and tensile strength
- Good sheet take-up performance
- Visible lock for quick and easy inspection
- Excellent hole fill via rapidly expanded body
- Stem mechanically locked into body
- One fastener can be used to replace several standard grip fasteners
- Reduced fastener inventory and simpler stock control
- Compensates for irregular, oversized, slotted or misaligned holes
- Can stop sheet movement in non-standard holes
- Large gap closing capability
- Provides very strong, vibration resistant joints
- No damage, electrical problems or rattling due to loose stems

Assembly materials

Hybolt MB rivets can be used to fasten:

- Metal to metal
- Metal to plastic

Assembly applications

- Automotive
- Cabinets and enclosures
- Commercial vehicles
- Domestic appliances
- Heating and ventilating
- Marine and hospital environments

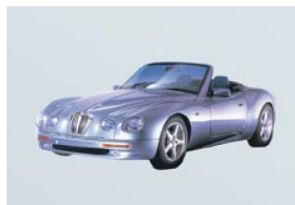
Car chassis



Column tail lifts



Product cooler



Specifications

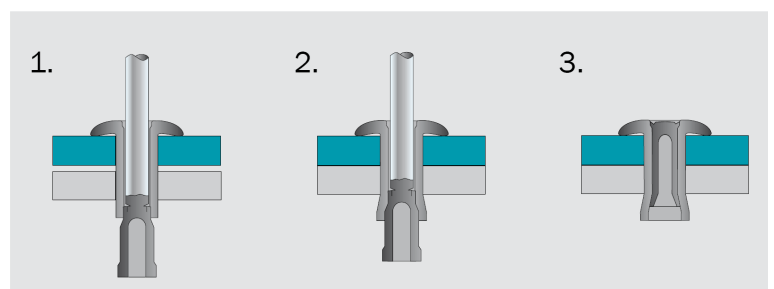
- Sizes: 4.8mm, 6.4mm and (3/16", 1/4")
- Materials: Aluminum alloy, steel and stainless steel
- Head forms: Protruding and countersunk

Installation Equipment

- New high performance, lightweight hydro-pneumatic tools for the installation of Hybolt MB breakstem rivets



Typical placing sequence



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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Technical Data Sheet

Hybolt MB - HMX77

MATERIAL

HEAD TYPE: DOME HEAD

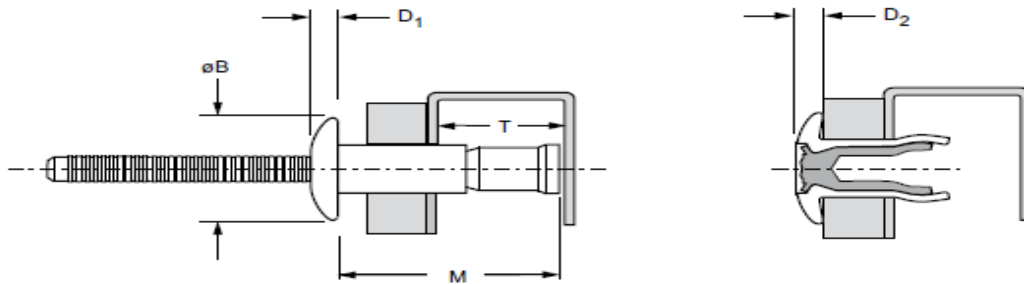
BODY: STAINLESS STEEL

MANDREL: STAINLESS STEEL

FINISH

BODY: NATURAL

MANDREL: NATURAL



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D1	T	D2	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	Max.		
HMX77-14810NN	4.80 X 10.00	1.63	6.86	4.90	5.10	18.20	10.10	2.10	10.50	1.90	6.40	5.10
HMX77-14813NN	4.80 X 13.00	1.63	11.10	4.90	5.10	24.50	10.10	2.10	13.50	1.90	6.40	5.10
HMX77-16413NN	6.40 X 13.00	2.03	9.53	6.60	7.00	23.70	13.40	2.90	12.20	2.70	11.70	10.40
HMX77-16419NN	6.40 X 19.00	2.03	15.87	6.60	7.00	33.00	13.40	2.90	16.40	2.70	11.70	10.40
HMX77-16422NN	6.40 X 22.00	3.04	15.88	9.95	10.40	36.20	20.30	4.10	22.30	4.00	26.10	19.40

Special / Custom made sizes also available on request.

Part Number Call and Explanation

PART NUMBER EXAMPLE – **HM- X77 - 1 - 48 - 10 - N - N**

HM	HYBOLT MB
X77	STAINLESS STEEL / STAINLESS STEEL
1	HEAD TYPE DOME
48	RIVET SHELL DIAMETER 4.8 MM
10	RIVET SHELL LENGTH
N	SHELL FINISH NATURAL
N	STEM FINISH NATURAL

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AVLOCK INTERNATIONAL
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Technical Data Sheet

Hybolt MB - HMX77

MATERIAL

HEAD TYPE: COUNTERSUNK

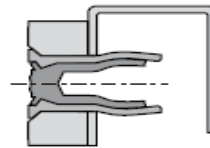
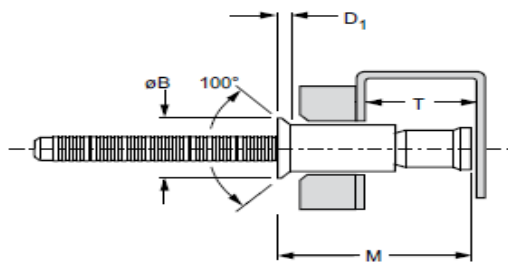
BODY: STAINLESS STEEL

MANDREL: STAINLESS STEEL

FINISH

BODY: NATURAL

MANDREL: NATURAL



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D1	T	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.		
HMX77-24812NN	4.80 X 12.00	3.17	8.41	4.90	5.10	20.00	8.25	2.20	10.41	6.40	5.10
HMX77-26417NN	6.40 X 17.00	3.17	12.07	6.60	7.00	26.40	10.03	2.40	12.19	11.70	10.40

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HM - X77 - 2 - 48 - 12 - N - N	
HM	HYBOLT MB
X77	STAINLESS STEEL / STAINLESS STEEL
2	HEAD TYPE COUNTERSUNK
48	RIVET SHELL DIAMETER 4.8 MM
12	RIVET SHELL LENGTH
N	SHELL FINISH NATURAL
N	STEM FINISH NATURAL

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AVLOCK INTERNATIONAL
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Technical Data Sheet

Hybolt MB - HMS44

MATERIAL

HEAD TYPE: DOME HEAD

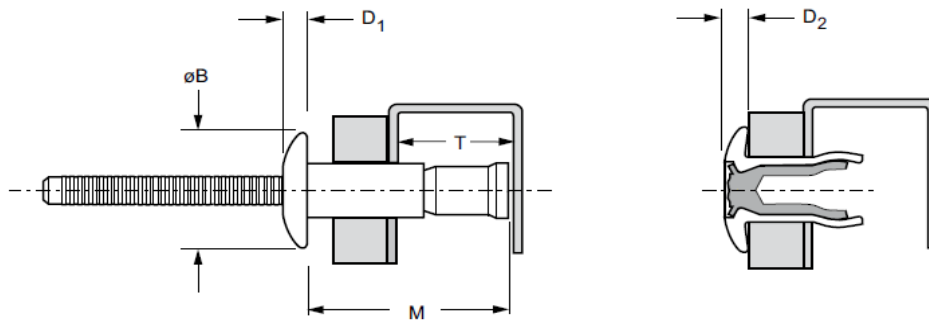
BODY: STEEL

MANDREL: STEEL

FINISH

BODY: ZINC PLATED

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D1	T	D2	Shear KN	Tensile KN
		Min	Max	Min	Max	Max	Max	Max	Max	Max		
HMS44-14810GG	4.80 X 10.00	1.63	6.86	4.90	5.10	18.20	10.10	2.10	10.50	1.90	6.40	5.10
HMS44-14813GG	4.80 X 13.00	1.63	11.10	4.90	5.10	24.50	10.10	2.10	13.50	1.90	6.40	5.10
HMS44-16413GG	6.40 X 13.00	2.03	9.53	6.60	7.00	23.70	13.40	2.90	12.20	2.70	11.70	10.40
HMS44-16419GG	6.40 X 19.00	2.03	15.87	6.60	7.00	33.00	13.40	2.90	16.40	2.70	11.70	10.40

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HM - S44 - 1 - 48 - 10 - G - G	
HM	HYBOLT MB
S44	STEEL / STEEL
1	HEAD TYPE DOME
48	RIVET SHELL DIAMETER 4.8 MM
10	RIVET SHELL LENGTH
G	SHELL FINISH ZINC PLATED
G	STEM FINISH ZINC PLATED

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AVLOCK INTERNATIONAL
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Technical Data Sheet

Hybolt MB - HMS44

MATERIAL

HEAD TYPE: COUNTERSUNK

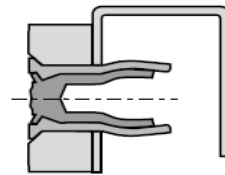
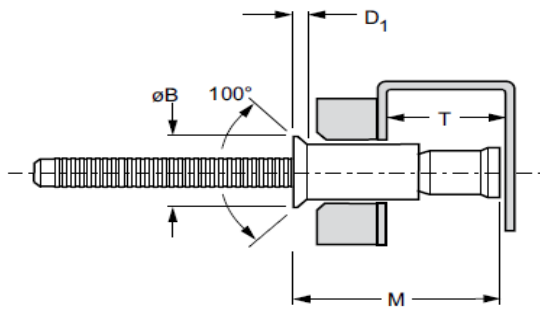
BODY: STEEL

MANDREL: STEEL

FINISH

BODY: ZINC PLATED

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D1	T	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.						
HMS44-24812GG	4.80 X 12.00	3.17	8.41	4.90	5.10	20.00	8.30	2.20	10.50	6.40	5.10
HMS44-24815GG	4.80 X 15.00	3.17	12.22	4.90	5.10	26.30	8.30	2.20	13.50	6.40	5.10
HMS44-26417GG	6.40 X 17.00	3.17	12.07	6.60	7.00	26.40	10.10	2.40	12.20	11.70	10.40

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HM - S44 - 2 - 48 - 10 - G - G	
HM	HYBOLT MB
S44	STEEL / STEEL
2	HEAD TYPE COUNTERSUNK
48	RIVET SHELL DIAMETER 4.8 MM
10	RIVET SHELL LENGTH
G	SHELL FINISH ZINC PLATED
G	STEM FINISH ZINC PLATED

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Technical Data Sheet

Hybolt MB - HMA55

MATERIAL

HEAD TYPE: DOME HEAD

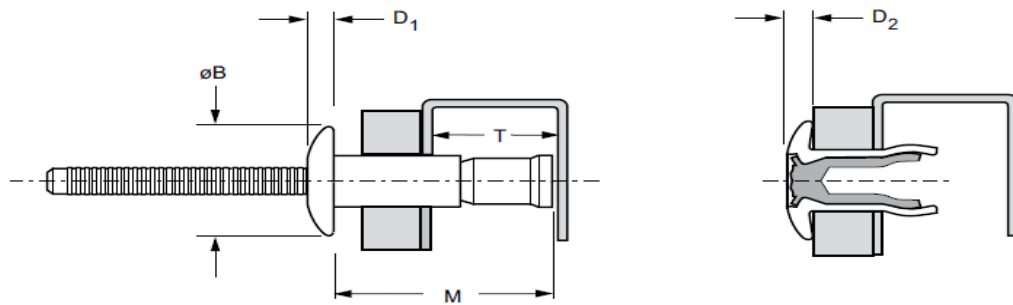
BODY: ALLUMINIUM ALLOY 5% Mg

MANDREL: ALLUMINIUM ALLOY 5% Mg

FINISH

BODY: POLISHED

MANDREL: NATURAL



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D1	T	D2	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	Max.		
HMA55-14810PN	4.80 X 10.00	1.63	6.86	4.90	5.10	18.40	10.10	2.10	10.50	1.90	3.00	2.20
HMA55-14813PN	4.80 X 13.00	1.63	11.10	4.90	5.10	24.10	10.10	2.10	13.00	1.90	3.00	2.20
HMA55-16413PN	6.40 X 13.00	2.03	9.53	6.60	7.00	24.60	13.40	2.90	13.00	2.70	6.00	4.20
HMA55-16419PN	6.40 X 19.00	2.03	15.87	6.60	7.00	34.70	13.40	2.90	18.10	2.70	6.00	4.20

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HM- A55 - 1 - 48 - 10 - P - N	
HM	HYBOLT MB
A55	ALUMINIUM ALLOY 5 % Mg / ALUMINIUM ALLOY 5 % Mg
1	HEAD TYPE DOME HEAD
48	RIVET SHELL DIAMETER 4.8 MM
10	RIVET SHELL LENGTH
P	SHELL FINISH POLISHED
N	STEM FINISH NATURAL

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Technical Data Sheet

Hybolt MB - HMA55

MATERIAL

HEAD TYPE: COUNTERSUNK

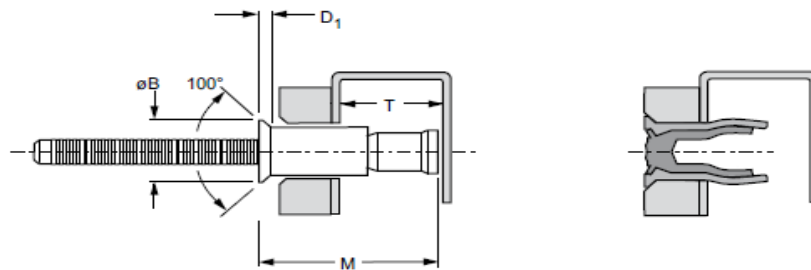
BODY: ALLUMINIUM ALLOY 5% Mg

MANDREL: ALLUMINIUM ALLOY 5% Mg

FINISH

BODY: POLISHED

MANDREL: NATURAL



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D1	T	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.		
HMA55-24812PN	4.80 X 12.00	3.17	8.41	4.90	5.10	20.00	8.30	2.20	10.50	2.80	2.10
HMA55-24815PN	4.80 X 15.00	3.17	12.22	4.90	5.10	26.30	8.30	2.20	13.50	2.80	2.10
HMA55-26417PN	6.40 X 17.00	3.17	12.07	6.60	7.00	27.20	10.10	2.40	13.00	6.00	4.20

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HM - A55 - 2 - 48 - 10 - P - N	
HM	HYBOLT MB
A55	ALUMINIUM ALLOY 5.5 Mg / ALUMINIUM ALLOY 5.5 Mg
2	HEAD TYPE COUNTERSUNK
48	RIVET SHELL DIAMETER 4.8 MM
10	RIVET SHELL LENGTH
P	SHELL FINISH POLISHED
N	STEM FINISH NATURAL

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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Hybolt IL

Product Description & Features

Hybolt IL rivet is a multi-grip structural breakstem fastener with excellent hole fill to give a fully sealed joint. The Hybolt IL rivet can close large gaps and prevent sheet movement and give high shear and tensile strength enable the use of fewer Interlock rivets per assembly.

Key features and benefits

- Multi-grip capability
- High shear and tensile strength
- Good sheet take-up performance
- Excellent hole fill via radially expanded body
- Stem mechanically locked into body
- One fastener can be used to replace several standard grip fasteners
- Reduced fastener inventory and simpler stock control
- Compensates for irregular, oversized, slotted or misaligned holes
- Can stop sheet movement in non-standard holes
- Large gap closing capability
- Provides very strong, vibration resistant joints
- No damage, electrical problems or rattling due to loose stems

Assembly materials

Hybolt IL can be used to fasten:

- Metal to metal
- Metal to plastic

Truck trailer



Heat exchanger



Assembly applications

- Automotive
- Cabinets and enclosures
- Commercial vehicles
- Domestic appliances
- Heating and ventilating

Specifications

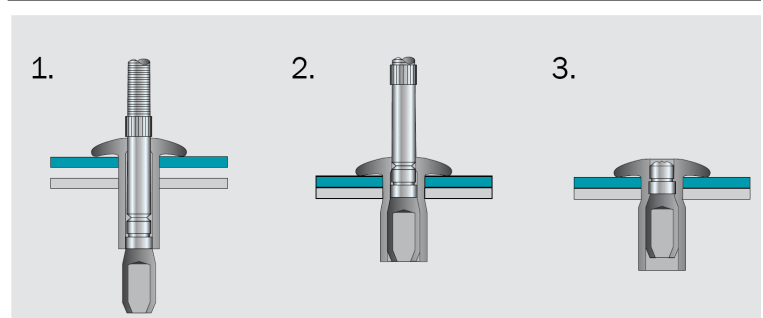
- Sizes: 4.8mm, 6.4mm (3/16", 1/4")
- Materials: Aluminium alloy, Steel and Stainless Steel
- Head forms: Dome and countersunk

Installation Equipment

- The pictures below show some Avlock installation equipments which can be used to place Hybolt IL fasteners



Typical placing sequence



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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Technical Data Sheet

Hybolt IL- HIS44

MATERIAL

HEAD TYPE: DOME HEAD

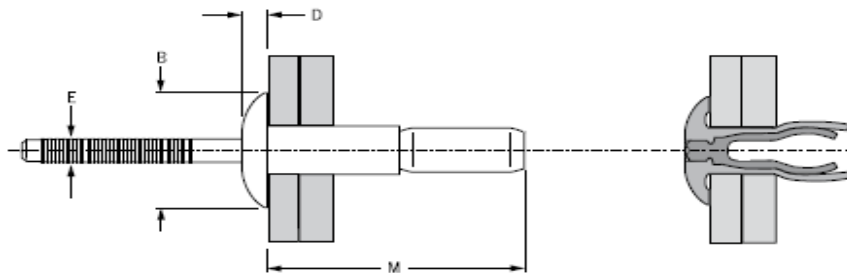
BODY: STEEL

MANDREL: STEEL

FINISH

BODY: ZINC PLATED

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D	E	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.		
HIS44-14810GG	4.80 X 10.00	1.57	6.35	4.93	5.18	18.20	10.20	2.30	3.10	5.70	4.40
HIS44-14813GG	4.80 X 13.00	5.44	11.10	4.93	5.18	25.50	10.20	2.30	3.10	5.70	4.40
HIS44-14816GG	4.80 X 16.00	9.53	15.88	4.93	5.18	27.70	10.20	2.30	3.10	5.70	4.40
HIS44-16414GG	6.40 X 14.00	2.03	9.53	6.63	7.01	30.00	13.50	3.00	4.10	10.60	8.20
HIS44-16418GG	6.40 X 18.00	8.89	15.88	6.63	7.01	36.40	13.50	3.00	4.10	10.60	8.20

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HI - S44 - 1 - 48 - 10 - G - G	
HI	HYBOLT IL
S44	STEEL / STEEL
1	HEAD TYPE DOME
48	RIVET SHELL DIAMETER 4.8 MM
10	RIVET SHELL LENGTH
G	SHELL FINISH ZINC PLATED
G	STEM FINISH ZINC PLATED

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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Technical Data Sheet

Hybolt IL - HIS44

MATERIAL

HEAD TYPE: COUNTERSUNK HEAD

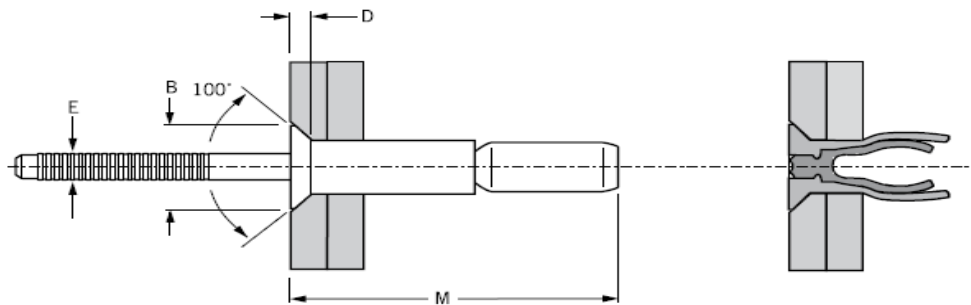
BODY: STEEL

MANDREL: STEEL

FINISH

BODY: ZINC PLATED

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D	E	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.		
HIS44-24812GG	4.80 X 12.00	3.18	8.41	4.93	5.18	20.20	9.20	1.80	3.10	5.70	4.40
HIS44-26416GG	6.40 X 16.00	4.32	12.07	6.63	7.01	28.40	11.40	2.00	4.10	10.60	8.20

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HI- S44 - 2- 48 - 12 - G - G	
HI	HYBOLT IL
S44	STEEL / STEEL
2	HEAD TYPE COUNTERSUNK
48	RIVET SHELL DIAMETER 4.8 MM
12	RIVET SHELL LENGTH
G	SHELL FINISH ZINC PLATED
G	STEM FINISH ZINC PLATED

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Technical Data Sheet

Hybolt IL - HIA55

MATERIAL

HEAD TYPE: DOME HEAD

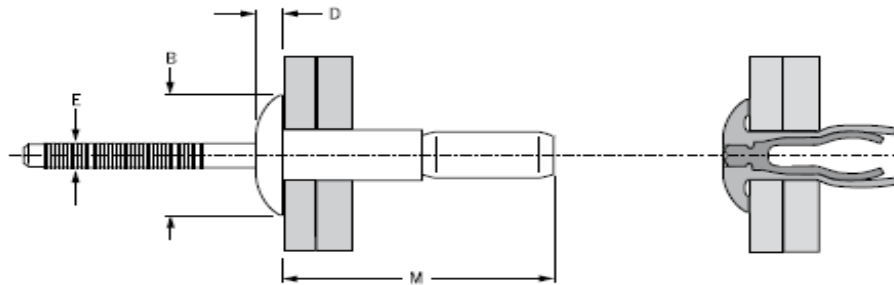
BODY: ALUMINIUM ALLOY 5% Mg

MANDREL: ALUMINIUM ALLOY 5% Mg

FINISH

BODY: NATURAL

MANDREL: NATURAL



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		M	B	D	E	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.		
HIA55-14810NN	4.80 X 10.00	1.57	6.35	4.93	5.18	21.40	10.20	2.30	3.10	2.40	2.00
HIA55-14813NN	4.80 X 13.00	5.44	11.10	4.93	5.18	22.30	10.20	2.30	3.10	2.40	2.00
HIA55-14816NN	4.80 X 16.00	9.53	15.88	4.93	5.18	27.70	10.20	2.30	3.10	2.40	2.00
HIA55-14814NN	4.80 X 14.00	1.57	11.10	4.93	5.18	24.80	10.20	2.30	3.10	2.40	2.00
HIA55-16414NN	6.40 X 14.00	2.03	9.53	6.63	7.01	30.00	13.50	3.00	4.10	5.60	3.60
HIA55-16418NN	6.40 X 18.00	8.89	15.88	6.63	7.01	33.10	13.50	3.00	4.10	5.60	3.60
HIA55-16420NN	6.40 X 20.00	2.03	15.88	6.63	7.01	35.60	13.50	3.00	4.10	5.60	3.60

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HI- A55 - 1 - 48 - 10 - N - N	
HI	HYBOLT IL
A55	ALUMINIUM ALLOY 5% Mg / ALUMINIUM 5% Mg
1	HEAD TYPE DOME
48	RIVET SHELL DIAMETER 4.8 MM
10	RIVET SHELL LENGTH
N	SHELL FINISH NATURAL
N	STEM FINISH ZINC NATURAL

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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Hydraseal

Product Description & Features

Hydraseal breakstem fastener is one piece sealed fastener having high strength and used in applications where water and air resistant joints are essential.

Key features and benefits

- Resistent to pressure and water ensures leak resistant assembly.
- Restrains corrosion. Improves life of the Joint/ Component.
- Complete hole fill capability.
- Ensures high strength and vibration resistant assembly.
- Eliminates possibility of loose stems and prevents damage to component.
- Can be used with different installation equipments.
- Variety of lengths and diameters available.

Assembly materials

Hydraseal can be used to fasten:

- Metal to metal
- Metal to plastic
- Metal rear sheet

Assembly applications

- Automotive
- Commercial vehicles
- Domestic appliances
- Electronics
- Electrical equipment
- General light industrial
- Heating and ventilating

Specifications

- Sizes: 3.2mm (1/8"), 4.0 mm (5/32) and 6.4mm (1/4")
- Material: Aluminium,Steel,Stainless Steel
- Head form: Dome, Countersunk Head

Installation Equipment

- The pictures below show some Avlock installation equipments which can be used to place Hydraseal fasteners



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Technical Data Sheet

Hydraseal - HCX77

MATERIAL

HEAD TYPE: DOME HEAD

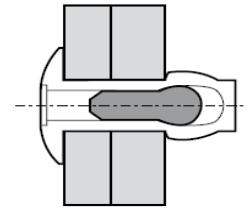
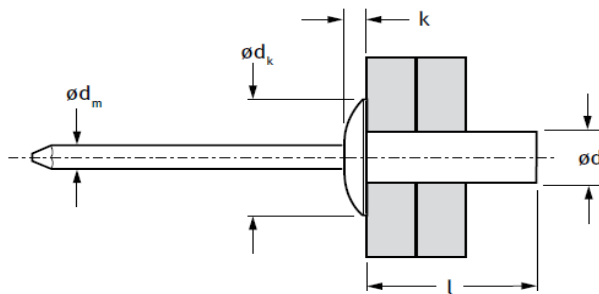
BODY: STAINLESS STEEL

MANDREL: STAINLESS STEEL

FINISH

BODY: NATURAL

MANDREL: NATURAL



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size	ϕd	L	ϕdk	K	ϕdm	Shear KN	Tensile KN
		Min.	Max.	Max.	Max.	Max.	Max.	Max.	Max.		
HCX77-13206NN	3.20 X 06.00	0.50	1.50	3.30	3.20	6.00	6.00	1.40	1.90	2.00	2.50
HCX77-13208NN	3.20 X 08.00	1.50	3.00	3.30	3.20	8.00	6.00	1.40	1.90	2.00	2.50
HCX77-13209NN	3.20 X 09.50	3.00	5.00	3.30	3.20	9.50	6.00	1.40	1.90	2.00	2.50
HCX77-13212NN	3.20 X 12.00	5.00	7.00	3.30	3.20	12.00	6.00	1.40	1.90	2.00	2.50
HCX77-14006NN	4.00 X 06.00	0.50	1.50	4.10	4.00	6.00	8.00	1.70	2.30	3.00	4.00
HCX77-14008NN	4.00 X 08.00	1.50	3.00	4.10	4.00	8.00	8.00	1.70	2.30	3.00	4.00
HCX77-14009NN	4.00 X 09.50	3.00	5.00	4.10	4.00	9.50	8.00	1.70	2.30	3.00	4.00
HCX77-14012NN	4.00 X 12.00	5.00	6.50	4.10	4.00	12.00	8.00	1.70	2.30	3.00	4.00
HCX77-14016NN	4.00 X 16.00	6.50	10.50	4.10	4.00	16.00	8.00	1.70	2.30	3.00	4.00
HCX77-14808NN	4.80 X 08.00	1.00	3.00	4.90	4.80	8.00	9.50	2.00	2.90	4.50	5.50
HCX77-14809NN	4.80 X 09.50	3.00	5.00	4.90	4.80	9.50	9.50	2.00	2.90	4.50	5.50
HCX77-14812NN	4.80 X 12.00	5.00	6.50	4.90	4.80	12.00	9.50	2.00	2.90	4.50	5.50
HCX77-14816NN	4.80 X 16.00	6.50	10.50	4.90	4.80	16.00	9.50	2.00	2.90	4.50	5.50
HCX77-14820NN	4.80 X 20.00	10.50	14.00	4.90	4.80	20.00	9.50	2.00	2.90	4.50	5.50

Special / Custom made sizes also available on request.

Note: Neoprene washer can also be assembled/provided for leak proof application.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HC - X77 - 1 - 32 - 06 - P - P	
HC	HYDRASEAL
X77	STAINLESS STEEL /STAINLESS STEEL
1	HEAD TYPE DOME
32	RIVET SHELL DIAMETER 3.2 MM
06	RIVET SHELL LENGTH
N	SHELL FINISH NATURAL
N	STEM FINISH NATURAL

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Technical Data Sheet

Hydraseal - HCS44

MATERIAL

HEAD TYPE: DOME HEAD

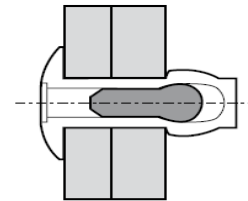
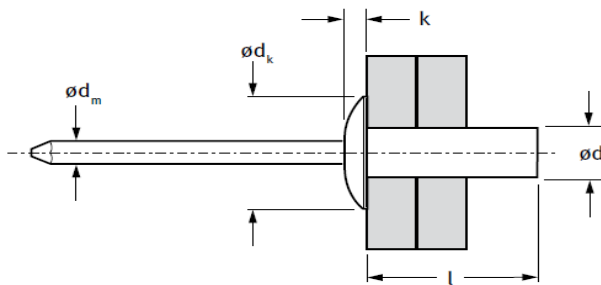
BODY: STEEL

MANDREL: STEEL

FINISH

BODY: ZINC PLATED

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size	ϕd	L	ϕd_k	K	ϕd_m	Shear KN	Tensile KN
		Min.	Max.	Max.	Max.	Max.	Max.	Max.	Max.		
HCS44-13206GG	3.20 X 06.00	0.50	1.50	3.30	3.20	6.00	6.00	1.00	1.90	1.60	2.20
HCS44-13208GG	3.20 X 08.00	1.50	3.00	3.30	3.20	8.00	6.00	1.00	1.90	1.60	2.20
HCS44-13209GG	3.20 X 09.50	3.00	5.00	3.30	3.20	9.50	6.00	1.00	1.90	1.60	2.20
HCS44-13212GG	3.20 X 12.00	5.00	7.00	3.30	3.20	12.00	6.00	1.00	1.90	1.60	2.20
HCS44-14006GG	4.00 X 06.00	0.50	1.50	4.10	4.00	6.00	8.00	1.40	2.30	2.30	2.50
HCS44-14008GG	4.00 X 08.00	1.50	3.00	4.10	4.00	8.00	8.00	1.40	2.30	2.30	2.50
HCS44-14010GG	4.00 X 10.00	3.00	5.00	4.10	4.00	10.00	8.00	1.40	2.30	2.30	2.50
HCS44-14012GG	4.00 X 12.00	5.00	6.50	4.10	4.00	12.00	8.00	1.40	2.30	2.30	2.50
HCS44-14015GG	4.00 X 15.00	6.50	10.50	4.10	4.00	15.00	8.00	1.40	2.30	2.30	2.50
HCS44-14808GG	4.80 X 08.00	1.00	3.00	4.90	4.80	8.00	9.50	1.70	2.90	2.90	3.80
HCS44-14809GG	4.80 X 09.50	3.00	5.00	4.90	4.80	9.50	9.50	1.70	2.90	2.90	3.80
HCS44-14812GG	4.80 X 12.00	5.00	6.50	4.90	4.80	12.00	9.50	1.70	2.90	2.90	3.80
HCS44-14816GG	4.80 X 16.00	6.50	10.50	4.90	4.80	16.00	9.50	1.70	2.90	2.90	3.80

Special / Custom made sizes also available on request.

Note: Neoprene washer can also be assembled/provided for leak proof application.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HC - S44 - 1 - 32 - 06 - G - G	
HC	HYDRASEAL
S44	STEEL/STEEL
1	HEAD TYPE DOME
32	RIVET SHELL DIAMETER 3.2 MM
06	RIVET SHELL LENGTH
G	SHELL FINISH ZINC PLATED
G	STEM FINISH ZINC PLATED

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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Technical Data Sheet

Hydraseal - HCA57

MATERIAL

HEAD TYPE: DOME HEAD

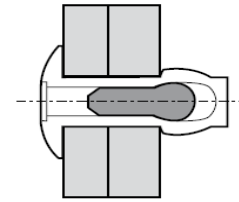
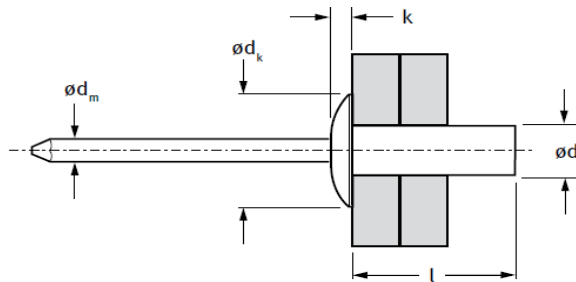
BODY: ALUMINIUM ALLOY 5056

MANDREL: STAINLESS STEEL

FINISH

BODY: POLISHED

MANDREL: NATURAL



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size	ϕd	L	ϕd_k	K	ϕd_m	Shear KN	Tensile KN
		Min.	Max.	Max.	Max.	Max.	Max.	Max.	Max.		
HCA57-13206PN	3.20 X 06.50	0.50	2.00	3.30	3.20	6.50	6.00	1.40	1.70	1.07	1.25
HCA57-13208PN	3.20 X 08.00	2.00	3.50	3.30	3.20	8.00	6.00	1.40	1.70	1.07	1.25
HCA57-13209PN	3.20 X 09.50	3.50	5.00	3.30	3.20	9.50	6.00	1.40	1.70	1.07	1.25
HCA57-13211PN	3.20 X 11.00	5.00	6.50	3.30	3.20	11.00	6.00	1.40	1.70	1.07	1.25
HCA57-13213PN	3.20 X 12.70	6.50	8.00	3.30	3.20	12.70	6.00	1.40	1.70	1.07	1.25
HCA57-14008PN	4.00 X 08.00	0.50	3.50	4.10	4.00	8.00	8.00	1.70	2.18	1.70	2.24
HCA57-14009PN	4.00 X 09.50	3.50	4.50	4.10	4.00	9.50	8.00	1.70	2.18	1.70	2.24
HCA57-14011PN	4.00 X 11.00	4.50	6.50	4.10	4.00	11.00	8.00	1.70	2.18	1.70	2.24
HCA57-14013PN	4.00 X 12.70	6.50	8.00	4.10	4.00	12.70	8.00	1.70	2.18	1.70	2.24
HCA57-14808PN	4.80 X 08.00	1.00	3.00	4.90	4.80	8.00	9.50	2.00	2.63	2.20	3.10
HCA57-14809PN	4.80 X 09.50	3.00	4.50	4.90	4.80	9.50	9.50	2.00	2.63	2.20	3.10
HCA57-14811PN	4.80 X 11.00	4.50	6.00	4.90	4.80	11.00	9.50	2.00	2.63	2.20	3.10
HCA57-14812PN	4.80 X 12.50	6.00	7.50	4.90	4.80	12.50	9.50	2.00	2.63	2.20	3.10
HCA57-14814PN	4.80 X 14.00	7.50	9.00	4.90	4.80	14.00	9.50	2.00	2.63	2.20	3.10
HCA57-14816PN	4.80 X 16.00	9.00	11.00	4.90	4.80	16.00	9.50	2.00	2.63	2.20	3.10
HCA57-14818PN	4.80 X 18.00	11.00	13.00	4.90	4.80	18.00	9.50	2.00	2.63	2.20	3.10
HCA57-14821PN	4.80 X 21.00	13.00	16.00	4.90	4.80	21.00	9.50	2.00	2.63	2.20	3.10

Special / Custom made sizes also available on request.

Note: Neoprene washer can also be assembled/provided for leak proof application.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HC - A57 - 1 - 32 - 06 - P - P	
HC	HYDRASEAL
A57	ALUMINIUM ALLOY 5056/ STAINLESS STEEL
1	HEAD TYPE DOME
32	RIVET SHELL DIAMETER 3.2 MM
06	RIVET SHELL LENGTH
P	SHELL FINISH POLISHED
P	STEM FINISH POLISHED

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INDIA PRIVATE LIMITED

Technical Data Sheet

Hydraseal - HCA54

MATERIAL

HEAD TYPE: DOME HEAD

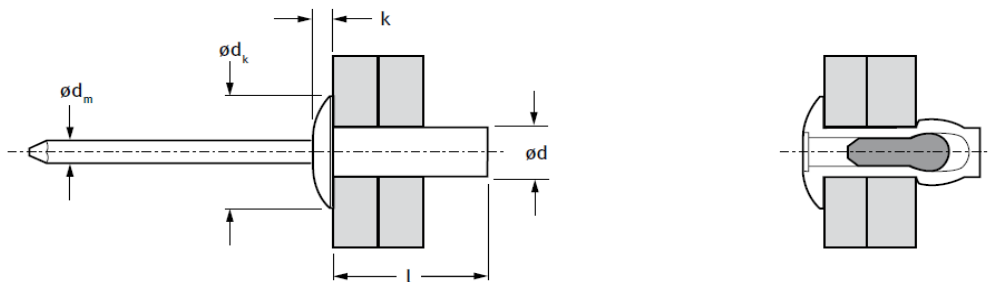
BODY: ALUMINIUM ALLOY 5056

MANDREL: STEEL

FINISH

BODY: POLISHED

MANDREL: PHOSPHATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size	Ød	L	Ødk	K	Ødm	Shear KN	Tensile KN
		Min.	Max.	Max.	Max.	Max.	Max.	Max.	Max.		
HCA54-13206PF	3.20 X 06.50	0.50	2.00	3.30	3.20	6.50	6.00	1.40	1.70	1.07	1.25
HCA54-13208PF	3.20 X 08.00	2.00	3.50	3.30	3.20	8.00	6.00	1.40	1.70	1.07	1.25
HCA54-13209PF	3.20 X 09.50	3.50	5.00	3.30	3.20	9.50	6.00	1.40	1.70	1.07	1.25
HCA54-13211PF	3.20 X 10.70	5.00	6.50	3.30	3.20	10.70	6.00	1.40	1.70	1.07	1.25
HCA54-13213PF	3.20 X 12.70	6.50	8.00	3.30	3.20	12.70	6.00	1.40	1.70	1.07	1.25
HCA54-14008PF	4.00 X 08.00	0.50	3.50	4.10	4.00	8.00	8.00	1.70	2.18	1.70	2.24
HCA54-14009PF	4.00 X 09.50	3.50	4.50	4.10	4.00	9.50	8.00	1.70	2.18	1.70	2.24
HCA54-14011PF	4.00 X 11.00	4.50	6.50	4.10	4.00	11.00	8.00	1.70	2.18	1.70	2.24
HCA54-14013PF	4.00 X 12.70	6.50	8.00	4.10	4.00	12.70	8.00	1.70	2.18	1.70	2.24
HCA54-14015PF	4.00 X 15.00	8.00	10.50	4.10	4.00	15.00	8.00	1.70	2.18	1.70	2.24
HCA54-14808PF	4.80 X 08.00	1.00	3.00	4.90	4.80	8.00	9.50	2.00	2.63	2.20	3.10
HCA54-14809PF	4.80 X 09.50	3.00	4.50	4.90	4.80	9.50	9.50	2.00	2.63	2.20	3.10
HCA54-14811PF	4.80 X 11.00	4.50	6.00	4.90	4.80	11.00	9.50	2.00	2.63	2.20	3.10
HCA54-14812PF	4.80 X 12.50	6.00	7.50	4.90	4.80	12.50	9.50	2.00	2.63	2.20	3.10
HCA54-14814PF	4.80 X 14.00	7.50	9.00	4.90	4.80	14.00	9.50	2.00	2.63	2.20	3.10
HCA54-14816PF	4.80 X 16.00	9.00	11.00	4.90	4.80	16.00	9.50	2.00	2.63	2.20	3.10
HCA54-14818PF	4.80 X 18.00	11.00	13.00	4.90	4.80	18.00	9.50	2.00	2.63	2.20	3.10
HCA54-14821PF	4.80 X 21.00	13.00	16.00	4.90	4.80	21.00	9.50	2.00	2.63	2.20	3.10
HCA54-14825PF	4.80 X 25.00	16.00	20.00	4.90	4.80	25.00	9.50	2.00	2.63	2.20	3.10
HCA54-16412PF	6.40 X 12.50	1.50	6.00	6.50	6.40	12.50	12.70	2.50	3.70	3.95	4.90
HCA54-16416PF	6.40 X 16.00	6.00	8.00	6.50	6.40	16.00	12.70	2.50	3.70	3.95	4.90

Part Number Call and Explanation

PART NUMBER EXAMPLE – HC - A54 - 1 - 32 - 06 - P - F

HC	HYDRASEAL
A54	ALUMINIUM ALLOY 5 % Mg / STEEL
1	HEAD TYPE DOME
32	RIVET SHELL DIAMETER 3.2 MM
06	RIVET SHELL LENGTH
P	SHEEL FINISH POLISHED
F	STEM FINISH PHOSPHATED

Note: Neoprene washer can also be assembled/provided for leak proof application.

Special / Custom made sizes also available on request.

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Website : www.avlock.co.in

Technical Data Sheet

Hydraseal - HCA54

MATERIAL

HEAD TYPE: COUNTERSUNK HEAD

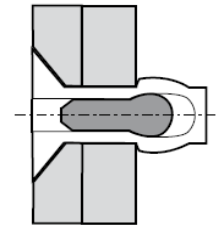
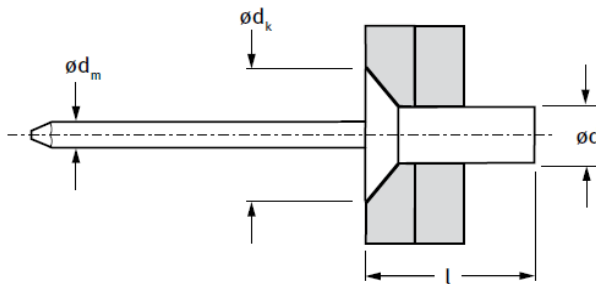
BODY: ALUMINIUM ALLOY 5056

MANDREL: STEEL

FINISH

BODY: POLISHED

MANDREL: PHOSPHATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size	ϕd	L	ϕdk	K	Shear KN	Tensile KN
		Min.	Max.	Max.	Max.	Max.	Max.	Max.		
HCA54-23207PF	3.20 X 07.50	1.50	3.50	3.30	3.20	7.50	6.00	1.70	1.07	1.25
HCA54-23209PF	3.20 X 09.00	3.00	5.00	3.30	3.20	9.00	6.00	1.70	1.07	1.25
HCA54-23210PF	3.20 X 10.50	4.50	6.50	3.30	3.20	10.50	6.00	1.70	1.07	1.25
HCA54-24009PF	4.00 X 09.50	3.00	5.00	4.10	4.00	9.50	7.50	2.20	1.71	2.24
HCA54-24011PF	4.00 X 11.00	4.50	6.50	4.10	4.00	11.00	7.50	2.20	1.71	2.24
HCA54-24012PF	4.00 X 12.50	6.00	8.00	4.10	4.00	12.50	7.50	2.20	1.71	2.24
HCA54-24809PF	4.80 X 09.50	2.50	4.50	4.90	4.80	9.50	9.00	2.65	2.23	3.07
HCA54-24811PF	4.80 X 11.00	4.00	6.00	4.90	4.80	11.00	9.00	2.65	2.23	3.07
HCA54-24812PF	4.80 X 12.50	5.50	7.50	4.90	4.80	12.50	9.00	2.65	2.23	3.07
HCA54-24814PF	4.80 X 14.00	7.00	9.00	4.90	4.80	14.00	9.00	2.65	2.23	3.07
HCA54-24815PF	4.80 X 15.50	8.50	10.50	4.90	4.80	15.50	9.00	2.65	2.23	3.07
HCA54-24819PF	4.80 X 19.00	12.00	14.00	4.90	4.80	19.00	9.00	2.65	2.23	3.07

Special / Custom made sizes also available on request.

Note: Neoprene washer can also be assembled/provided for leak proof application.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HC - A54 - 2 - 32 - 07 - P - F	
HC	HYDRASEAL
A54	ALUMINIUM ALLOY 5056/ STEEL
2	HEAD TYPE COUNTERSUNK
32	RIVET SHELL DIAMETER 3.2 MM
07	RIVET SHELL LENGTH
P	SHELL FINISH POLISHED
F	STEM FINISH PHOSPHATED

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Website : www.avlock.co.in

Technical Data Sheet

Hydraseal - HCA22

MATERIAL

HEAD TYPE: DOME HEAD

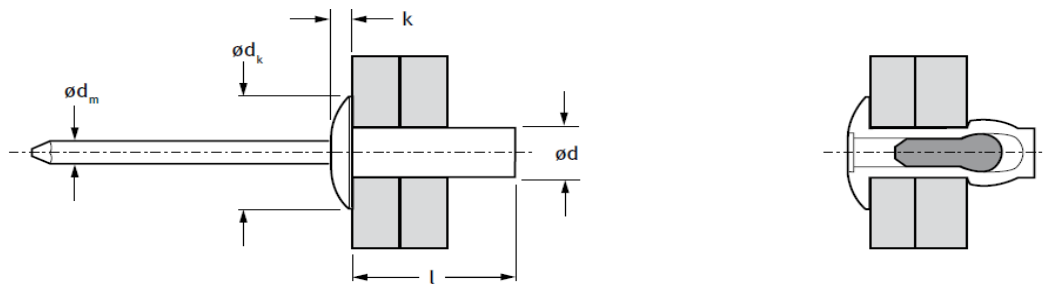
BODY: ALUMINIUM ALLOY 5052

MANDREL: ALUMINIUM ALLOY 5052

FINISH

BODY: POLISHED

MANDREL: POLISHED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size	ϕd	L	ϕdk	K	ϕdm	Shear KN	Tensile KN
		Min.	Max.	Max.	Max.	Max.	Max.	Max.	Max.		
HCA22-13208PP	3.20 X 08.00	0.50	3.50	3.30	3.20	8.00	6.00	1.40	1.80	0.45	0.49
HCA22-13209PP	3.20 X 09.50	3.50	5.50	3.30	3.20	9.50	6.00	1.40	1.80	0.45	0.49
HCA22-14009PP	4.00 X 09.50	0.50	5.00	4.10	4.00	9.50	8.00	1.70	2.20	0.58	0.82
HCA22-14012PP	4.00 X 12.50	5.00	8.00	4.10	4.00	12.50	8.00	1.70	2.20	0.58	0.82
HCA22-14809PP	4.80 X 09.50	1.00	4.50	4.90	4.80	9.50	9.50	2.00	2.65	0.90	1.12
HCA22-14811PP	4.80 X 11.50	4.50	6.50	4.90	4.80	11.50	9.50	2.00	2.65	0.90	1.12
HCA22-14814PP	4.80 X 14.50	6.50	9.50	4.90	4.80	14.50	9.50	2.00	2.65	0.90	1.12
HCA22-14818PP	4.80 X 18.00	9.50	13.00	4.90	4.80	18.00	9.50	2.00	2.65	0.90	1.12

Special / Custom made sizes also available on request.

Note: Neoprene washer can also be assembled/provided for leak proof application.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HC - A22 - 1 - 32 - 08 - P - P	
HC	HYDRASEAL
A22	ALUMINIUM ALLOY 5052 / ALUMINIUM ALLOY 5052
1	HEAD TYPE DOME
32	RIVET SHELL DIAMETER 3.2 MM
08	RIVET SHELL LENGTH
P	SHELL FINISH POLISHED
P	STEM FINISH POLISHED

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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Hydrapop

Product Description & Features

Hydrapop rivet is a uni-grip breakstem blind fasteners available in various lengths for wide grip thicknesses. Fastening cost are low, Due to high speed and ease of application. Strong, reliable, vibration proof assemblies can be made without operator skills and rivet can be installed without marking the surface of the workpiece.

Key features and benefits

- Hydrapop is a Uni-grip rivet and comes in wide range of diameters and lengths
- Allows versatility in various applications.
- Countersunk head available which gives flush finish to work surface.
- Large flange head available enables to use in softer materials.
- Good Hole fill ensures high strength joints even in oversize and misaligned holes.
- Ideal for use in thin sheet materials.
- Require one side access for installation.
- High speed installation
- Available in various material combinations

Assembly materials

Hydrapop can be used to fasten:

- Metal to metal
- Plastic to plastic
- Metal to plastic

Assembly applications

- Automotive
- Commercial vehicles
- Domestic appliances
- Electronics
- Electrical equipment
- General light industrial
- Heating and ventilating

Specifications

- Sizes: 2.4mm to 6.4mm
- Materials: Aluminium, Steel,Stainless Steel
- Head forms: Dome, Large Flange, Counter Sunk.

Installation Equipment

- The pictures below show some Avlock installation equipments which can be used to place Hydrapop fasteners



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Technical Data Sheet

Hydrapop - HPA24

MATERIAL

HEAD TYPE: DOME HEAD

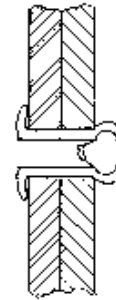
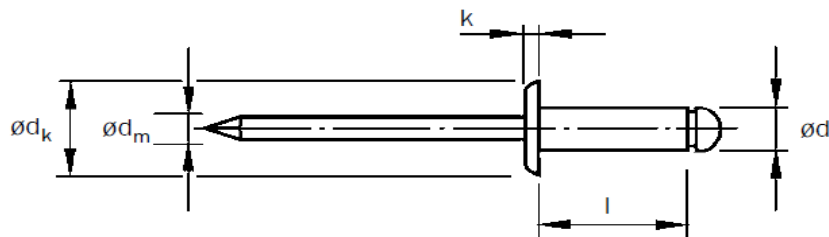
BODY: ALUMINIUM ALLOY 5052

MANDREL: STEEL

FINISH

BODY: NATURAL

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		l	Ødk	k	Ødm	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.						
HPA24-12404NG	2.40 X 04.00		2.00	2.50	2.40	4.00	5.00	0.70	1.45	0.32	0.36
HPA24-12404NG	2.40 X 06.00	2.00	4.00	2.50	2.40	6.00	5.00	0.70	1.45	0.32	0.36
HPA24-12404NG	2.40 X 08.00	4.00	6.00	2.50	2.40	8.00	5.00	0.70	1.45	0.32	0.36
HPA24-12404NG	2.40 X 10.00	6.00	8.00	2.50	2.40	10.00	5.00	0.70	1.45	0.32	0.36
HPA24-13204NG	3.20 X 04.00		1.50	3.30	3.20	4.00	6.50	0.80	1.75	0.76	0.98
HPA24-13206NG	3.20 X 06.00	1.50	3.50	3.30	3.20	6.00	6.50	0.80	1.75	0.76	0.98
HPA24-13208NG	3.20 X 08.00	3.50	5.50	3.30	3.20	8.00	6.50	0.80	1.75	0.76	0.98
HPA24-13210NG	3.20 X 10.00	5.50	7.50	3.30	3.20	10.00	6.50	0.80	1.75	0.76	0.98
HPA24-13212NG	3.20 X 12.00	7.50	9.50	3.30	3.20	12.00	6.50	0.80	1.75	0.76	0.98
HPA24-13214NG	3.20 X 14.00	9.50	11.50	3.30	3.20	14.00	6.50	0.80	1.75	0.76	0.98
HPA24-13216NG	3.20 X 16.00	11.50	13.50	3.30	3.20	16.00	6.50	0.80	1.75	0.76	0.98
HPA24-14006NG	4.00 X 06.00	1.50	3.00	4.10	4.00	6.00	8.00	1.00	2.10	1.20	1.60
HPA24-14008NG	4.00 X 08.00	3.00	5.00	4.10	4.00	8.00	8.00	1.00	2.10	1.20	1.60
HPA24-14010NG	4.00 X 10.00	5.00	6.50	4.10	4.00	10.00	8.00	1.00	2.10	1.20	1.60
HPA24-14012NG	4.00 X 12.00	6.50	8.50	4.10	4.00	12.00	8.00	1.00	2.10	1.20	1.60
HPA24-14014NG	4.00 X 14.00	8.50	10.50	4.10	4.00	14.00	8.00	1.00	2.10	1.20	1.60
HPA24-14016NG	4.00 X 16.00	10.50	12.50	4.10	4.00	16.00	8.00	1.00	2.10	1.20	1.60
HPA24-14018NG	4.00 X 18.00	12.50	14.50	4.10	4.00	18.00	8.00	1.00	2.10	1.20	1.60
HPA24-14020NG	4.00 X 20.00	14.50	16.50	4.10	4.00	20.00	8.00	1.00	2.10	1.20	1.60
HPA24-14806NG	4.80 X 06.00	1.00	3.00	4.90	4.80	6.00	9.50	1.10	2.70	1.69	2.23
HPA24-14808NG	4.80 X 08.00	3.00	4.50	4.90	4.80	8.00	9.50	1.10	2.70	1.69	2.23
HPA24-14810NG	4.80 X 10.00	4.50	6.00	4.90	4.80	10.00	9.50	1.10	2.70	1.69	2.23
HPA24-14812NG	4.80 X 12.00	6.00	8.00	4.90	4.80	12.00	9.50	1.10	2.70	1.69	2.23
HPA24-14814NG	4.80 X 14.00	8.00	10.00	4.90	4.80	14.00	9.50	1.10	2.70	1.69	2.23
HPA24-14816NG	4.80 X 16.00	10.00	12.00	4.90	4.80	16.00	9.50	1.10	2.70	1.69	2.23
HPA24-14818NG	4.80 X 18.00	12.00	14.00	4.90	4.80	18.00	9.50	1.10	2.70	1.69	2.23
HPA24-14820NG	4.80 X 20.00	14.00	16.00	4.90	4.80	20.00	9.50	1.10	2.70	1.69	2.23
HPA24-14822NG	4.80 X 22.00	16.00	18.00	4.90	4.80	22.00	9.50	1.10	2.70	1.69	2.23
HPA24-14825NG	4.80 X 25.00	18.00	21.00	4.90	4.80	25.00	9.50	1.10	2.70	1.69	2.23
HPA24-14828NG	4.80 X 28.00	21.00	23.50	4.90	4.80	28.00	9.50	1.10	2.70	1.69	2.23
HPA24-14830NG	4.80 X 30.00	23.50	25.00	4.90	4.80	30.00	9.50	1.10	2.70	1.69	2.23
HPA24-14835NG	4.80 X 35.00	25.00	30.00	4.90	4.80	35.00	9.50	1.10	2.70	1.69	2.23
HPA24-14840NG	4.80 X 40.00	30.00	35.00	4.90	4.80	40.00	9.50	1.10	2.70	1.69	2.23

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Website : www.avlock.co.in

Technical Data Sheet

Hydrapop - HPA24

All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		l	Ødk	k	Ødm	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.	Max.	Max.	Max.	Ødm		
HPA24-15006NG	5.00 X 06.00	1.00	3.00	5.10	5.00	6.00	9.50	1.10	2.70	2.00	2.50
HPA24-15008NG	5.00 X 08.00	3.00	4.50	5.10	5.00	8.00	9.50	1.10	2.70	2.00	2.50
HPA24-15010NG	5.00 X 10.00	4.50	6.00	5.10	5.00	10.00	9.50	1.10	2.70	2.00	2.50
HPA24-15012NG	5.00 X 12.00	6.00	8.00	5.10	5.00	12.00	9.50	1.10	2.70	2.00	2.50
HPA24-15014NG	5.00 X 14.00	8.00	10.00	5.10	5.00	14.00	9.50	1.10	2.70	2.00	2.50
HPA24-15016NG	5.00 X 16.00	10.00	12.00	5.10	5.00	16.00	9.50	1.10	2.70	2.00	2.50
HPA24-15018NG	5.00 X 18.00	12.00	14.00	5.10	5.00	18.00	9.50	1.10	2.70	2.00	2.50
HPA24-15021NG	5.00 X 21.00	14.00	17.00	5.10	5.00	21.00	9.50	1.10	2.70	2.00	2.50
HPA24-15025NG	5.00 X 25.00	17.00	20.00	5.10	5.00	25.00	9.50	1.10	2.70	2.00	2.50
HPA24-15027NG	5.00 X 27.00	20.00	23.00	5.10	5.00	27.00	9.50	1.10	2.70	2.00	2.50
HPA24-15030NG	5.00 X 30.00	23.00	25.00	5.10	5.00	30.00	9.50	1.10	2.70	2.00	2.50
HPA24-15035NG	5.00 X 35.00	25.00	30.00	5.10	5.00	35.00	9.50	1.10	2.70	2.00	2.50
HPA24-15040NG	5.00 X 40.00	30.00	35.00	5.10	5.00	40.00	9.50	1.10	2.70	2.00	2.50
HPA24-16008NG	6.00 X 08.00	2.00	4.00	6.10	6.00	8.00	2.00	1.50	3.60	3.00	3.90
HPA24-16010NG	6.00 X 10.00	4.00	6.00	6.10	6.00	10.00	2.00	1.50	3.60	3.00	3.90
HPA24-16012NG	6.00 X 12.00	6.00	8.00	6.10	6.00	12.00	2.00	1.50	3.60	3.00	3.90
HPA24-16014NG	6.00 X 14.00	7.00	9.00	6.10	6.00	14.00	2.00	1.50	3.60	3.00	3.90
HPA24-16016NG	6.00 X 16.00	9.00	11.00	6.10	6.00	16.00	2.00	1.50	3.60	3.00	3.90
HPA24-16018NG	6.00 X 18.00	11.00	13.00	6.10	6.00	18.00	2.00	1.50	3.60	3.00	3.90
HPA24-16022NG	6.00 X 22.00	13.00	17.00	6.10	6.00	22.00	2.00	1.50	3.60	3.00	3.90
HPA24-16026NG	6.00 X 26.00	17.00	20.00	6.10	6.00	26.00	2.00	1.50	3.60	3.00	3.90
HPA24-16030NG	6.00 X 30.00	20.00	24.00	6.10	6.00	30.00	2.00	1.50	3.60	3.00	3.90
HPA24-16410NG	6.40 X 10.00		2.50	6.50	6.40	10.00	13.00	1.80	3.85	3.12	4.09
HPA24-16412NG	6.40 X 12.00	4.00	6.00	6.50	6.40	12.00	13.00	1.80	3.85	3.12	4.09
HPA24-16415NG	6.40 X 15.00	6.00	9.00	6.50	6.40	15.00	13.00	1.80	3.85	3.12	4.09
HPA24-16418NG	6.40 X 18.00	9.00	13.00	6.50	6.40	18.00	13.00	1.80	3.85	3.12	4.09
HPA24-16422NG	6.40 X 22.00	13.00	16.00	6.50	6.40	22.00	13.00	1.80	3.85	3.12	4.09
HPA24-16426NG	6.40 X 26.00	16.00	20.00	6.50	6.40	26.00	13.00	1.80	3.85	3.12	4.09
HPA24-16430NG	6.40 X 30.00	18.00	24.00	6.50	6.40	30.00	13.00	1.80	3.85	3.12	4.09

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HP - A24 - 1 - 24 - 04 - N - G	
HP	HYDRAPOP
A24	ALUMINIUM ALLOY 5052 / STEEL
1	HEAD TYPE DOME
24	RIVET SHELL DIAMETER 2.4 MM
04	RIVET SHELL LENGTH
N	SHELL FINISH NATURAL
G	STEM FINISH ZINC PLATED

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Email : info@avlock.co.in
Website : www.avlock.co.in

Technical Data Sheet

Hydrapop - HPA24

MATERIAL

HEAD TYPE: LARG FLANGE

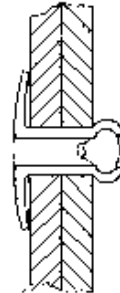
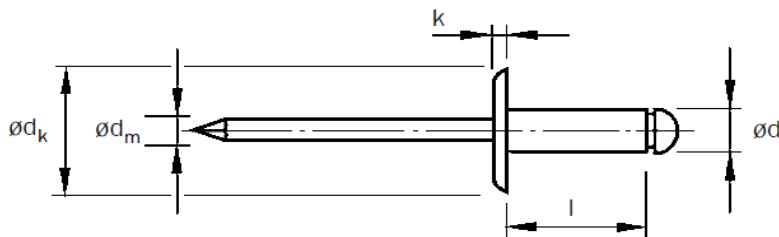
BODY: ALUMINIUM ALLOY 5052

MANDREL: STEEL

FINISH

BODY: NATURAL

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		l	Ødk	k	Ødm	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.						
HPA24-33206NG	3.20 X 06.00	1.50	3.50	3.30	3.20	6.00	9.50	2.00	1.70	0.76	0.98
HPA24-33208NG	3.20 X 08.00	3.50	5.50	3.30	3.20	8.00	9.50	2.00	1.70	0.76	0.98
HPA24-33210NG	3.20 X 10.00	5.50	7.50	3.30	3.20	10.00	9.50	2.00	1.70	0.76	0.98
HPA24-33212NG	3.20 X 12.00	7.50	9.50	3.30	3.20	12.00	9.50	2.00	1.70	0.76	0.98
HPA24-33214NG	3.20 X 14.00	9.50	11.50	3.30	3.20	14.00	9.50	2.00	1.70	0.76	0.98
HPA24-34006NG	4.00 X 06.00	1.50	3.00	4.10	4.00	6.00	12.00	2.50	2.10	1.20	1.60
HPA24-34008NG	4.00 X 08.00	3.00	5.00	4.10	4.00	8.00	12.00	2.50	2.10	1.20	1.60
HPA24-34010NG	4.00 X 10.00	5.00	6.50	4.10	4.00	10.00	12.00	2.50	2.10	1.20	1.60
HPA24-34012NG	4.00 X 12.00	6.50	8.50	4.10	4.00	12.00	12.00	2.50	2.10	1.20	1.60
HPA24-34014NG	4.00 X 14.00	8.50	10.50	4.10	4.00	14.00	12.00	2.50	2.10	1.20	1.60
HPA24-34016NG	4.00 X 16.00	10.50	12.50	4.10	4.00	16.00	12.00	2.50	2.10	1.20	1.60
HPA24-34808NG	4.80 X 08.00	3.00	4.50	4.90	4.80	8.00	14.00	2.50	2.70	1.69	2.23
HPA24-34810NG	4.80 X 10.00	4.50	6.00	4.90	4.80	10.00	14.00	2.50	2.70	1.69	2.23
HPA24-34812NG	4.80 X 12.00	6.00	8.00	4.90	4.80	12.00	14.00	2.50	2.70	1.69	2.23
HPA24-34814NG	4.80 X 14.00	8.00	10.00	4.90	4.80	14.00	14.00	2.50	2.70	1.69	2.23
HPA24-34816NG	4.80 X 16.00	10.00	12.00	4.90	4.80	16.00	14.00	2.50	2.70	1.69	2.23
HPA24-34818NG	4.80 X 18.00	12.00	14.00	4.90	4.80	18.00	14.00	2.50	2.70	1.69	2.23
HPA24-34820NG	4.80 X 20.00	14.00	16.00	4.90	4.80	20.00	14.00	2.50	2.70	1.69	2.23
HPA24-34822NG	4.80 X 22.00	16.00	18.00	4.90	4.80	22.00	14.00	2.50	2.70	1.69	2.23
HPA24-34824NG	4.80 X 24.00	18.00	21.00	4.90	4.80	24.00	14.00	2.50	2.70	1.69	2.23
HPA24-34826NG	4.80 X 26.00	19.50	22.00	4.90	4.80	26.00	14.00	2.50	2.70	1.69	2.23
HPA24-34828NG	4.80 X 28.00	21.00	23.50	4.90	4.80	28.00	14.00	2.50	2.70	1.69	2.23
HPA24-34830NG	4.80 X 30.00	23.00	25.00	4.90	4.80	30.00	14.00	2.50	2.70	1.69	2.23
HPA24-34835NG	4.80 X 35.00	25.00	30.00	4.90	4.80	35.00	14.00	2.50	2.70	1.69	2.23

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Email : info@avlock.co.in
Website : www.avlock.co.in

Technical Data Sheet

Hydrapop - HPA24

MATERIAL

HEAD TYPE: LARG FLANGE

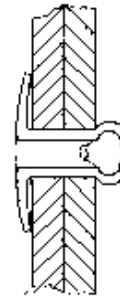
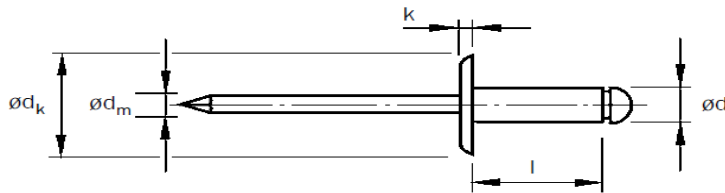
BODY: ALUMINIUM ALLOY 5052

MANDREL: STEEL

FINISH

BODY: NATURAL

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		l	Ødk	k	Ødm	Ødm	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.							
HPA24-35008NG	5.00 X 08.00	3.00	4.50	5.10	5.00	8.00	14.00	2.50	2.70	2.00	2.50	2.50
HPA24-35010NG	5.00 X 10.00	4.50	6.00	5.10	5.00	10.00	14.00	2.50	2.70	2.00	2.50	2.50
HPA24-35012NG	5.00 X 12.00	6.00	8.00	5.10	5.00	12.00	14.00	2.50	2.70	2.00	2.50	2.50
HPA24-35014NG	5.00 X 14.00	8.00	10.00	5.10	5.00	14.00	14.00	2.50	2.70	2.00	2.50	2.50
HPA24-35016NG	5.00 X 16.00	10.00	12.00	5.10	5.00	16.00	14.00	2.50	2.70	2.00	2.50	2.50
HPA24-35018NG	5.00 X 18.00	12.00	14.00	5.10	5.00	18.00	14.00	2.50	2.70	2.00	2.50	2.50
HPA24-35021NG	5.00 X 21.00	14.00	17.00	5.10	5.00	21.00	14.00	2.50	2.70	2.00	2.50	2.50
HPA24-35024NG	5.00 X 24.00	17.00	20.00	5.10	5.00	24.00	14.00	2.50	2.70	2.00	2.50	2.50

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HP - A24 - 3 - 50 - 08 - N - G	
HP	HYDRAPOP
A24	ALUMINIUM ALLOY 5052 / STEEL
3	HEAD TYPE LARGE FLANGE
50	RIVET SHELL DIAMETER 5.0 MM
08	RIVET SHELL LENGTH
N	SHELL FINISH NATURAL
G	STEM FINISH ZINC PLATED

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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Technical Data Sheet

Hydrapop - HPA24

MATERIAL

HEAD TYPE: COUNTERSUNK HEAD

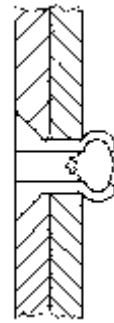
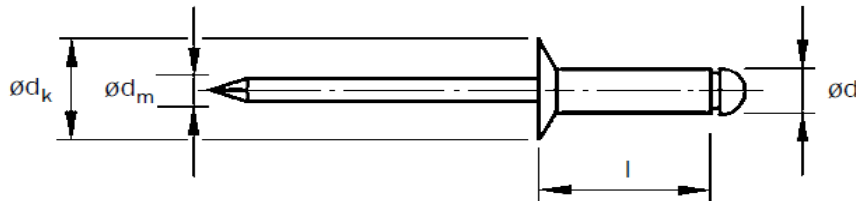
BODY: ALUMINIUM ALLOY 5052

MANDREL: STEEL

FINISH

BODY: NATURAL

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		l	Ødk	Ødm	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.					
HPA24-22406PG	2.40 X 06.00	2.00	4.00	2.50	2.40	6.00	5.00	1.45	0.32	0.36
HPA24-22408PG	2.40 X 08.00	4.00	6.00	2.50	2.40	8.00	5.00	1.45	0.32	0.36
HPA24-22410PG	2.40 X 10.00	6.00	8.00	2.50	2.40	10.00	5.00	1.45	0.32	0.36
HPA24-23006PG	3.00 X 06.00	1.50	3.50	3.10	3.00	6.00	6.00	1.75	0.62	0.81
HPA24-23008PG	3.00 X 08.00	3.50	5.50	3.10	3.00	8.00	6.00	1.75	0.62	0.81
HPA24-23010PG	3.00 X 10.00	5.50	7.50	3.10	3.00	10.00	6.00	1.75	0.62	0.81
HPA24-23012PG	3.00 X 12.00	7.50	9.50	3.10	3.00	12.00	6.00	1.75	0.62	0.81
HPA24-23206PG	3.20 X 06.00	1.50	3.50	3.30	3.20	6.00	6.00	1.75	0.76	0.98
HPA24-23208PG	3.20 X 08.00	3.50	5.50	3.30	3.20	8.00	6.00	1.75	0.76	0.98
HPA24-23210PG	3.20 X 10.00	5.50	7.50	3.30	3.20	10.00	6.00	1.75	0.76	0.98
HPA24-23212PG	3.20 X 12.00	7.50	9.50	3.30	3.20	12.00	6.00	1.75	0.76	0.98
HPA24-23214PG	3.20 X 14.00	9.50	11.50	3.30	3.20	14.00	6.00	1.75	0.76	0.98
HPA24-24006PG	4.00 X 06.00	1.50	3.00	4.10	4.00	6.00	7.50	2.10	1.20	1.60
HPA24-24008PG	4.00 X 08.00	3.00	5.00	4.10	4.00	8.00	7.50	2.10	1.20	1.60
HPA24-24010PG	4.00 X 10.00	5.00	6.50	4.10	4.00	10.00	7.50	2.10	1.20	1.60
HPA24-24012PG	4.00 X 12.00	6.50	8.60	4.10	4.00	12.00	7.50	2.10	1.20	1.60
HPA24-24014PG	4.00 X 14.00	8.50	10.50	4.10	4.00	14.00	7.50	2.10	1.20	1.60
HPA24-24016PG	4.00 X 16.00	10.50	12.50	4.10	4.00	16.00	7.50	2.10	1.20	1.60

Part Number Call and Explanation

PART NUMBER EXAMPLE – HP - A24 - 2 - 24 - 06 - P - G

HP	HYDRAPOP
A24	ALUMINIUM ALLOY 5052 / STEEL
2	HEAD TYPE COUNTERSUNK
24	RIVET SHELL DIAMETER 2.4 MM
06	RIVET SHELL LENGTH
P	SHELL FINISH POLISHED
G	STEM FINISH ZINC PLATED

Special / Custom made sizes also available on request.

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



AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Technical Data Sheet

Hydrapop - HPA24

MATERIAL

HEAD TYPE: COUNTERSUNK HEAD

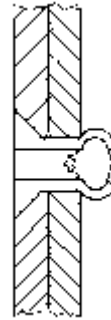
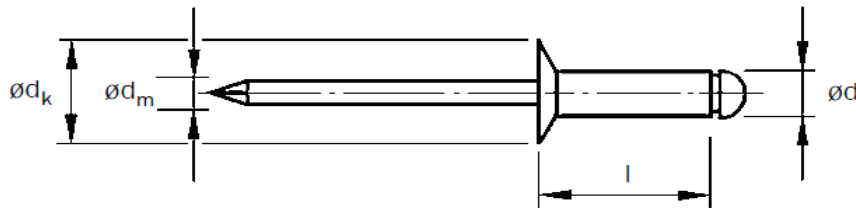
BODY: ALUMINIUM ALLOY 5052

MANDREL: STEEL

FINISH

BODY: NATURAL

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		l	Ødk	Ødm	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.					
HPA24-24808PG	4.80 X 08.00	3.00	4.50	4.90	4.80	8.00	9.00	2.70	1.69	2.23
HPA24-24810PG	4.80 X 10.00	4.50	6.00	4.90	4.80	10.00	9.00	2.70	1.69	2.23
HPA24-24812PG	4.80 X 12.00	6.00	8.00	4.90	4.80	12.00	9.00	2.70	1.69	2.23
HPA24-24814PG	4.80 X 14.00	8.00	10.00	4.90	4.80	14.00	9.00	2.70	1.69	2.23
HPA24-24816PG	4.80 X 16.00	10.00	12.00	4.90	4.80	16.00	9.00	2.70	1.69	2.23
HPA24-24818PG	4.80 X 18.00	12.00	14.00	4.90	4.80	18.00	9.00	2.70	1.69	2.23
HPA24-24820PG	4.80 X 20.00	14.00	16.00	4.90	4.80	20.00	9.00	2.70	1.69	2.23
HPA24-24825PG	4.80 X 25.00	18.00	21.00	4.90	4.80	25.00	9.00	2.70	1.69	2.23
HPA24-25008PG	5.00 X 08.00	3.00	4.50	5.10	5.00	8.00	9.00	2.70	2.00	2.50
HPA24-25010PG	5.00 X 10.00	4.50	6.00	5.10	5.00	10.00	9.00	2.70	2.00	2.50
HPA24-25012PG	5.00 X 12.00	6.00	8.00	5.10	5.00	12.00	9.00	2.70	2.00	2.50
HPA24-25014PG	5.00 X 14.00	8.00	10.00	5.10	5.00	14.00	9.00	2.70	2.00	2.50
HPA24-25016PG	5.00 X 16.00	10.00	12.00	5.10	5.00	16.00	9.00	2.70	2.00	2.50
HPA24-25018PG	5.00 X 18.00	12.00	14.00	5.10	5.00	18.00	9.00	2.70	2.00	2.50
HPA24-25020PG	5.00 X 20.00	14.00	17.00	5.10	5.00	21.00	9.00	2.70	2.00	2.50
HPA24-25025PG	5.00 X 25.00	17.00	20.00	5.10	5.00	25.00	9.00	2.70	2.00	2.50

Special / Custom made sizes also available on request.

Part Number Call and Explanation

PART NUMBER EXAMPLE – HP - A24 - 2 - 48 - 08 - P - G

HP	HYDRAPOP
A24	ALUMINIUM ALLOY 5052 / STEEL
2	HEAD TYPE COUNTERSUNK
48	RIVET SHELL DIAMETER 4.8 MM
08	RIVET SHELL LENGTH
P	SHELL FINISH POLISHED
G	STEM FINISH ZINC PLATED

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Technical Data Sheet

Hydrapop - HPA27

MATERIAL

HEAD TYPE: DOME HEAD

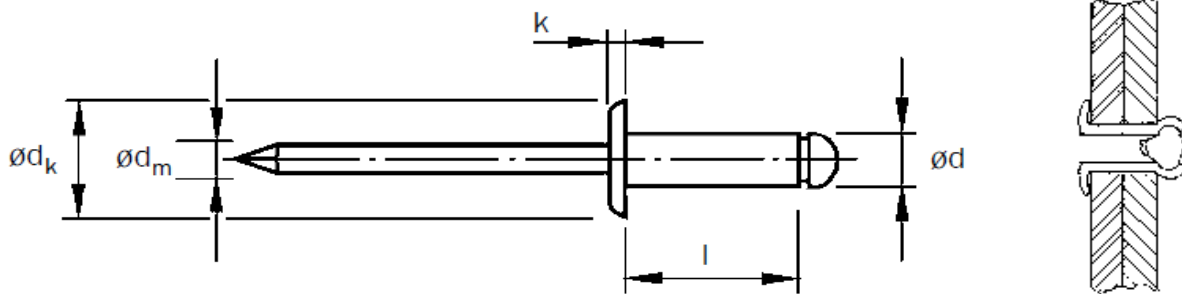
BODY: ALUMINIUM ALLOY 5052

MANDREL: STAINLESS STEEL

FINISH

BODY: POLISHED

MANDREL: NATURAL



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		l	Ødk	k	Ødm	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.						
HPA27-13006PN	3.00 X 06.00	1.50	3.50	3.10	3.00	6.00	6.5	0.8	1.75	0.62	0.81
HPA27-13008PN	3.00 X 08.00	3.50	5.50	3.10	3.00	8.00	6.5	0.8	1.75	0.62	0.81
HPA27-13010PN	3.00 X 10.00	5.50	7.00	3.10	3.00	10.00	6.5	0.8	1.75	0.62	0.81
HPA27-13012PN	3.00 X 12.00	7.00	9.00	3.10	3.00	12.00	6.5	0.8	1.75	0.62	0.81
HPA27-13206PN	3.20 X 06.00	1.50	3.50	3.30	3.20	6.00	6.5	0.8	1.95	0.76	0.98
HPA27-13208PN	3.20 X 08.00	3.50	5.50	3.30	3.20	8.00	6.5	0.8	1.95	0.76	0.98
HPA27-13210PN	3.20 X 10.00	5.50	7.00	3.30	3.20	10.00	6.5	0.8	1.95	0.76	0.98
HPA27-13212PN	3.20 X 12.00	7.00	9.00	3.30	3.20	12.00	6.5	0.8	1.95	0.76	0.98
HPA27-14006PN	4.00 X 06.00	1.00	3.00	4.10	4.0	6.00	8.0	1.0	2.10	1.20	1.60
HPA27-14008PN	4.00 X 08.00	3.00	5.00	4.10	4.0	8.00	8.0	1.0	2.10	1.20	1.60
HPA27-14010PN	4.00 X 10.00	5.00	7.00	4.10	4.0	10.00	8.0	1.0	2.10	1.20	1.60
HPA27-14012PN	4.00 X 12.00	7.00	9.00	4.10	4.0	12.00	8.0	1.0	2.10	1.20	1.60

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HP - A27 - 1 - 30 - 06 - P - N	
HP	HYDRAPOP
A27	ALUMINIUM ALLOY 5052 / STAINLESS STEEL
1	HEAD TYPE DOME
30	RIVET SHELL DIAMETER 3.0 MM
06	RIVET SHELL LENGTH
P	SHELL FINISH POLISHED
N	STEM FINISH NATURAL

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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Technical Data Sheet

Hydrapop - HPA27

MATERIAL

HEAD TYPE: DOME HEAD

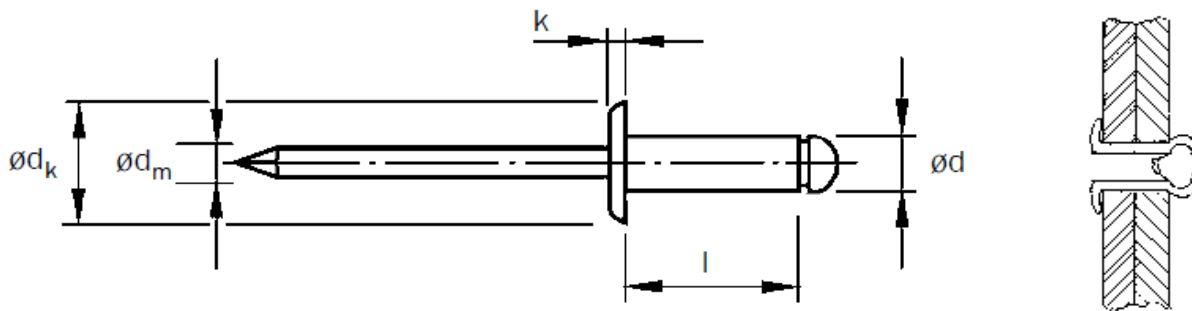
BODY: ALUMINIUM ALLOY 5052

MANDREL: STAINLESS STEEL

FINISH

BODY: POLISHED

MANDREL: NATURAL



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		l	Ødk	k	Ødm	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.						
HPA27-14808PN	4.80 X 08.00	2.50	4.50	4.90	4.8	8.00	9.5	1.1	2.70	1.69	2.23
HPA27-14810PN	4.80 X 10.00	4.50	6.50	4.90	4.8	10.00	9.5	1.1	2.70	1.69	2.23
HPA27-14812PN	4.80 X 12.00	6.50	8.50	4.90	4.8	12.00	9.5	1.1	2.70	1.69	2.23
HPA27-14814PN	4.80 X 14.00	8.50	10.50	4.90	4.8	14.00	9.5	1.1	2.70	1.69	2.23
HPA27-14816PN	4.80 X 16.00	10.50	12.50	4.90	4.8	16.00	9.5	1.1	2.70	1.69	2.23
HPA27-14818PN	4.80 X 18.00	12.50	14.50	4.90	4.8	18.00	9.5	1.1	2.70	1.69	2.23
HPA27-14820PN	4.80 X 20.00	14.50	16.50	4.90	4.8	20.00	9.5	1.1	2.70	1.69	2.23
HPA27-15008PN	5.00 X 08.00	2.50	4.50	5.10	5.0	8.00	9.5	1.1	2.70	2.00	2.50
HPA27-15010PN	5.00 X 10.00	4.50	6.50	5.10	5.0	10.00	9.5	1.1	2.70	2.00	2.50
HPA27-15012PN	5.00 X 12.00	6.50	8.50	5.10	5.0	12.00	9.5	1.1	2.70	2.00	2.50
HPA27-15016PN	5.00 X 16.00	10.50	12.50	5.10	5.0	16.00	9.5	1.1	2.70	2.00	2.50

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HP - A27 - 1 - 48 - 08 - P - N	
HP	HYDRAVEX
A27	ALUMINIUM ALLOY 5052 / STAINLESS STEEL
1	HEAD TYPE DOME
48	RIVET SHELL DIAMETER 4.8 MM
08	RIVET SHELL LENGTH
P	SHELL FINISH POLISHED
N	STEM FINISH NATURAL

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Technical Data Sheet

Hydrapop - HPS44

MATERIAL

HEAD TYPE: DOME HEAD

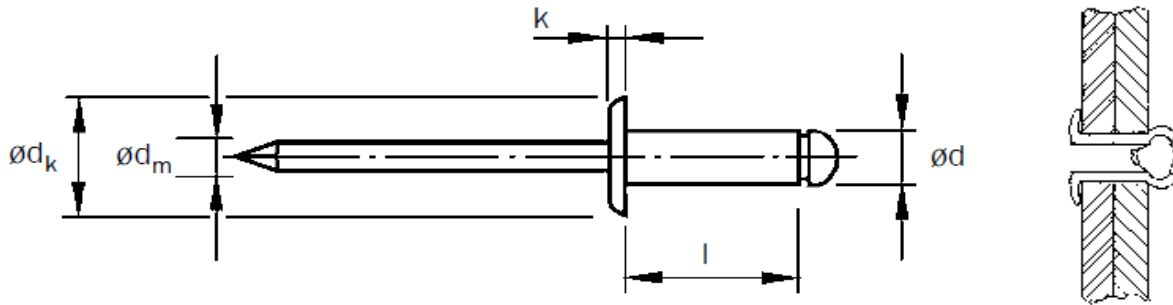
BODY: STEEL

MANDREL: STEEL

FINISH

BODY: ZINC PLATED

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		l	Ødk	k	Ødm	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.						
HPS44-13006GG	3.00 X 06.00	1.50	3.00	3.10	3.00	6.00	6.50	0.80	1.90	0.92	1.13
HPS44-13008GG	3.00 X 08.00	3.00	5.00	3.10	3.00	8.00	6.50	0.80	1.90	0.92	1.13
HPS44-13010GG	3.00 X 10.00	5.00	7.00	3.10	3.00	10.00	6.50	0.80	1.90	0.92	1.13
HPS44-13012GG	3.00 X 12.00	7.00	9.00	3.10	3.00	12.00	6.50	0.80	1.90	0.92	1.13
HPS44-13014GG	3.00 X 14.00	9.00	11.00	3.10	3.00	14.00	6.50	0.80	1.90	0.92	1.13
HPS44-13206GG	3.20 X 06.00	1.50	3.00	3.30	3.20	6.00	6.50	0.80	2.00	1.06	1.29
HPS44-13208GG	3.20 X 08.00	3.00	5.00	3.30	3.20	8.00	6.50	0.80	2.00	1.06	1.29
HPS44-13210GG	3.20 X 10.00	5.00	7.00	3.30	3.20	10.00	6.50	0.80	2.00	1.06	1.29
HPS44-13212GG	3.20 X 12.00	7.00	9.00	3.30	3.20	12.00	6.50	0.80	2.00	1.06	1.29
HPS44-13214GG	3.20 X 14.00	9.00	11.00	3.30	3.20	14.00	6.50	0.80	2.00	1.06	1.29
HPS44-13216GG	3.20 X 16.00	11.00	13.00	3.30	3.20	16.00	6.50	0.80	2.00	1.06	1.29
HPS44-14006GG	4.00 X 06.00	1.50	2.50	4.10	4.00	6.00	8.00	1.00	2.50	1.55	1.99
HPS44-14008GG	4.00 X 08.00	2.50	4.50	4.10	4.00	8.00	8.00	1.00	2.50	1.55	1.99
HPS44-14010GG	4.00 X 10.00	4.50	6.50	4.10	4.00	10.00	8.00	1.00	2.50	1.55	1.99
HPS44-14012GG	4.00 X 12.00	6.50	8.50	4.10	4.00	12.00	8.00	1.00	2.50	1.55	1.99
HPS44-14014GG	4.00 X 14.00	8.50	10.50	4.10	4.00	14.00	8.00	1.00	2.50	1.55	1.99
HPS44-14016GG	4.00 X 16.00	10.50	12.50	4.10	4.00	16.00	8.00	1.00	2.50	1.55	1.99
HPS44-14018GG	4.00 X 18.00	12.50	14.50	4.10	4.00	18.00	8.00	1.00	2.50	1.55	1.99
HPS44-14020GG	4.00 X 20.00	14.50	16.50	4.10	4.00	20.00	8.00	1.00	2.50	1.55	1.99

Part Number Call and Explanation

PART NUMBER EXAMPLE – HP - S44 - 1 - 30 - 06 - G - G

HP	HYDRAPOP
S44	STEEL / STEEL
1	HEAD TYPE DOME
30	RIVET SHELL DIAMETER 3.0 MM
06	RIVET SHELL LENGTH
G	SHELL FINISH ZINC PLATED
G	STEM FINISH ZINC PLATED

Special / Custom made sizes also available on request.

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



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Technical Data Sheet

Hydrapop - HPS44

MATERIAL

HEAD TYPE: DOME HEAD

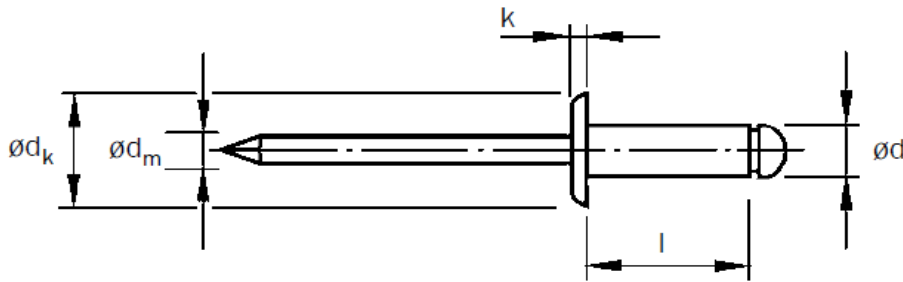
BODY: STEEL

MANDREL: STEEL

FINISH

BODY: ZINC PLATED

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		l	ϕd_k	k	ϕd_m	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.						
HPS44-14806GG	4.80 X 06.00	1.00	2.50	4.90	4.80	6.00	9.50	1.10	2.90	2.30	2.92
HPS44-14808GG	4.80 X 08.00	2.50	4.50	4.90	4.80	8.00	9.50	1.10	2.90	2.30	2.92
HPS44-14810GG	4.80 X 10.00	4.50	6.00	4.90	4.80	10.00	9.50	1.10	2.90	2.30	2.92
HPS44-14812GG	4.80 X 12.00	6.00	8.00	4.90	4.80	12.00	9.50	1.10	2.90	2.30	2.92
HPS44-14814GG	4.80 X 14.00	8.00	10.00	4.90	4.80	14.00	9.50	1.10	2.90	2.30	2.92
HPS44-14816GG	4.80 X 16.00	10.00	11.50	4.90	4.80	16.00	9.50	1.10	2.90	2.30	2.92
HPS44-14818GG	4.80 X 18.00	11.50	13.50	4.90	4.80	18.00	9.50	1.10	2.90	2.30	2.92
HPS44-14820GG	4.80 X 20.00	13.50	15.00	4.90	4.80	20.00	9.50	1.10	2.90	2.30	2.92
HPS44-14822GG	4.80 X 22.00	15.00	17.00	4.90	4.80	22.00	9.50	1.10	2.90	2.30	2.92
HPS44-14825GG	4.80 X 25.00	17.00	20.00	4.90	4.80	25.00	9.50	1.10	2.90	2.30	2.92
HPS44-14828GG	4.80 X 28.00	20.00	23.00	4.90	4.80	28.00	9.50	1.10	2.90	2.30	2.92
HPS44-14830GG	4.80 X 30.00	23.00	26.00	4.90	4.80	30.00	9.50	1.10	2.90	2.30	2.92

Special / Custom made sizes also available on request.

Part Number Call and Explanation	
PART NUMBER EXAMPLE – HP - S44 - 1 - 48 - 06 - G - G	
HP	HYDRAPOP
S44	STEEL / STEEL
1	HEAD TYPE DOME
48	RIVET SHELL DIAMETER 4.8 MM
06	RIVET SHELL LENGTH
G	SHELL FINISH ZINC PLATED
G	STEM FINISH ZINC PLATED

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INDIA PRIVATE LIMITED

Technical Data Sheet

Hydrapop - HPS44

MATERIAL

HEAD TYPE: DOME HEAD

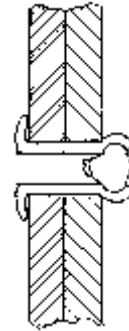
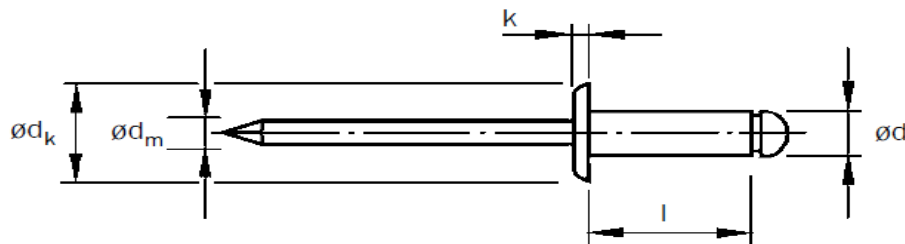
BODY: STEEL

MANDREL: STEEL

FINISH

BODY: ZINC PLATED

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		l	Ødk	k	Ødm	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.						
HPS44-15008GG	5.00 X 08.00	2.50	4.00	5.10	5.00	8.00	9.50	1.10	2.90	2.58	3.26
HPS44-15010GG	5.00 X 10.00	4.00	6.00	5.10	5.00	10.00	9.50	1.10	2.90	2.58	3.26
HPS44-15012GG	5.00 X 12.00	6.00	8.00	5.10	5.00	12.00	9.50	1.10	2.90	2.58	3.26
HPS44-15014GG	5.00 X 14.00	8.00	10.00	5.10	5.00	14.00	9.50	1.10	2.90	2.58	3.26
HPS44-15016GG	5.00 X 16.00	10.00	11.50	5.10	5.00	16.00	9.50	1.10	2.90	2.58	3.26
HPS44-15018GG	5.00 X 18.00	11.50	13.50	5.10	5.00	18.00	9.50	1.10	2.90	2.58	3.26
HPS44-15020GG	5.00 X 20.00	13.50	15.00	5.10	5.00	20.00	9.50	1.10	2.90	2.58	3.26
HPS44-16012GG	6.00 X 12.00	3.50	6.50	6.10	6.00	12.00	12.00	1.50	3.60	4.04	5.02
HPS44-16015GG	6.00 X 15.00	6.50	9.50	6.10	6.00	15.00	12.00	1.50	3.60	4.04	5.02
HPS44-16018GG	6.00 X 18.00	9.50	12.50	6.10	6.00	18.00	12.00	1.50	3.60	4.04	5.02
HPS44-16022GG	6.00 X 22.00	13.50	16.50	6.10	6.00	22.00	12.00	1.50	3.60	4.04	5.02
HPS44-16026GG	6.00 X 26.00	17.50	20.50	6.10	6.00	26.00	12.00	1.50	3.60	4.04	5.02
HPS44-16030GG	6.00 X 30.00	21.50	24.50	6.10	6.00	30.00	12.00	1.50	3.60	4.04	5.02
HPS44-16412GG	6.40 X 12.00	3.50	6.50	6.50	6.40	12.00	13.00	1.80	3.85	4.36	5.42
HPS44-16415GG	6.40 X 15.00	6.50	9.50	6.50	6.40	15.00	13.00	1.80	3.85	4.36	5.42
HPS44-16418GG	6.40 X 18.00	9.50	12.50	6.50	6.40	18.00	13.00	1.80	3.85	4.36	5.42
HPS44-16422GG	6.40 X 22.00	14.50	16.50	6.50	6.40	22.00	13.00	1.80	3.85	4.36	5.42
HPS44-16426GG	6.40 X 26.00	18.50	20.50	6.50	6.40	26.00	13.00	1.80	3.85	4.36	5.42
HPS44-16430GG	6.40 X 30.00	22.50	24.50	6.50	6.40	30.00	13.00	1.80	3.85	4.36	5.42

Part Number Call and Explanation

PART NUMBER EXAMPLE – HP - S44 - 1 - 50 - 08 - G - G

HP	HYDRAPOP
S44	STEEL / STEEL
1	HEAD TYPE DOME
50	RIVET SHELL DIAMETER 5.0 MM
08	RIVET SHELL LENGTH
G	SHELL FINISH ZINC PLATED
G	STEM FINISH ZINC PLATED

Special / Custom made sizes also available on request.

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



AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Technical Data Sheet

Hydrapop - HPS44

MATERIAL

HEAD TYPE: COUNTERSUNK

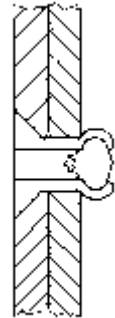
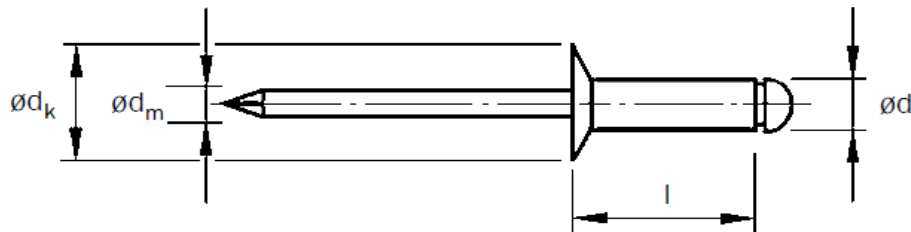
BODY: STEEL

MANDREL: STEEL

FINISH

BODY: ZINC PLATED

MANDREL: ZINC PLATED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		l	Ødk	Ødm	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.					
HPS44-23006GG	3.00 x 06.00	1.50	3.00	3.10	3.00	6.00	6.00	1.90	0.92	1.13
HPS44-23008GG	3.00 x 08.00	3.00	5.00	3.10	3.00	8.00	6.00	1.90	0.92	1.13
HPS44-23010GG	3.00 x 10.00	5.00	7.00	3.10	3.00	10.00	6.00	1.90	0.92	1.13
HPS44-23012GG	3.00 x 12.00	7.00	9.00	3.10	3.00	12.00	6.00	1.90	0.92	1.13
HPS44-23206GG	3.20 x 06.00	1.50	3.00	3.30	3.20	6.00	6.00	2.00	1.06	1.29
HPS44-23208GG	3.20 x 08.00	3.00	5.00	3.30	3.20	8.00	6.00	2.00	1.06	1.29
HPS44-23210GG	3.20 x 10.00	5.00	7.00	3.30	3.20	10.00	6.00	2.00	1.06	1.29
HPS44-23212GG	3.20 x 12.00	7.00	9.00	3.30	3.20	12.00	6.00	2.00	1.06	1.29
HPS44-24006GG	4.00 x 06.00	1.50	2.50	4.10	4.00	6.00	7.50	2.50	1.55	1.99
HPS44-24008GG	4.00 x 08.00	2.50	4.50	4.10	4.00	8.00	7.50	2.50	1.55	1.99
HPS44-24010GG	4.00 x 10.00	4.50	6.50	4.10	4.00	10.00	7.50	2.50	1.55	1.99
HPS44-24012GG	4.00 x 12.00	6.50	8.50	4.10	4.00	12.00	7.50	2.50	1.55	1.99
HPS44-24014GG	4.00 x 14.00	8.50	10.50	4.10	4.00	14.00	7.50	2.50	1.55	1.99
HPS44-24016GG	4.00 x 16.00	10.50	12.50	4.10	4.00	16.00	7.50	2.50	1.55	1.99
HPS44-24808GG	4.80 x 08.00	2.50	4.50	4.90	4.80	8.00	9.00	2.90	2.30	2.92
HPS44-24810GG	4.80 x 10.00	4.50	6.00	4.90	4.80	10.00	9.00	2.90	2.30	2.92
HPS44-24812GG	4.80 x 12.00	6.00	8.00	4.90	4.80	12.00	9.00	2.90	2.30	2.92
HPS44-24814GG	4.80 x 14.00	8.00	10.00	4.90	4.80	14.00	9.00	2.90	2.30	2.92
HPS44-24816GG	4.80 x 16.00	10.00	11.50	4.90	4.80	16.00	9.00	2.90	2.30	2.92
HPS44-24818GG	4.80 x 18.00	11.50	13.50	4.90	4.80	18.00	9.00	2.90	2.30	2.92
HPS44-24820GG	4.80 x 20.00	13.50	15.50	4.90	4.80	20.00	9.00	2.90	2.30	2.92

Part Number Call and Explanation

PART NUMBER EXAMPLE – HP - S44 - 2 - 30 - 06 - G - G

HP	HYDRAPOP
S44	STEEL / STEEL
2	HEAD TYPE COUNTERSUNK
30	RIVET SHELL DIAMETER 3.0 MM
06	RIVET SHELL LENGTH
G	SHELL FINISH ZINC PLATED
G	STEM FINISH ZINC PLATED

Special / Custom made sizes also available on request.

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



AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Technical Data Sheet

Hydrapop - HPX77

MATERIAL

HEAD TYPE: DOME HEAD

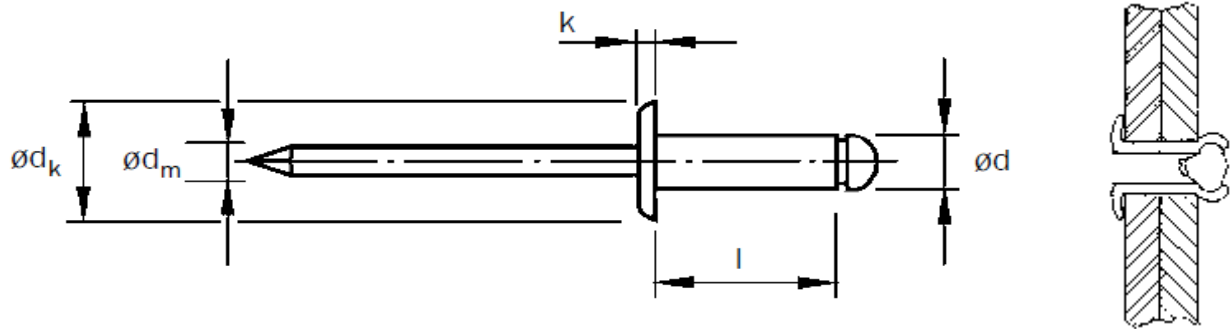
BODY: STAINLESS STEEL

MANDREL: STAINLESS STEEL

FINISH

BODY: NATURAL

MANDREL: NATURAL



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		l	Ødk	k	Ødm	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.	Max.	Max.	Max.			
HPX77-13006NN	3.00 X 06.00	1.50	2.50	3.10	3.00	6.00	6.50	0.80	1.90	1.60	2.00
HPX77-13008NN	3.00 X 08.00	2.50	4.50	3.10	3.00	8.00	6.50	0.80	1.90	1.60	2.00
HPX77-13010NN	3.00 X 10.00	4.50	6.50	3.10	3.00	10.00	6.50	0.80	1.90	1.60	2.00
HPX77-13012NN	3.00 X 12.00	6.50	8.50	3.10	3.00	12.00	6.50	0.80	1.90	1.60	2.00
HPX77-13204NN	3.20 X 04.00		1.50	3.30	3.20	4.00	6.50	0.80	2.00	1.80	2.50
HPX77-13206NN	3.20 X 06.00	1.50	2.50	3.30	3.20	6.00	6.50	0.80	2.00	1.80	2.50
HPX77-13208NN	3.20 X 08.00	2.50	4.50	3.30	3.20	8.00	6.50	0.80	2.00	1.80	2.50
HPX77-13210NN	3.20 X 10.00	4.50	6.50	3.30	3.20	10.00	6.50	0.80	2.00	1.80	2.50
HPX77-13212NN	3.20 X 12.00	6.50	8.50	3.30	3.20	12.00	6.50	0.80	2.00	1.80	2.50
HPX77-13215NN	3.20 X 15.00	8.50	12.00	3.30	3.20	15.00	6.50	0.80	2.00	1.80	2.50
HPX77-13218NN	3.20 X 18.00	12.00	15.00	3.30	3.20	18.00	6.50	0.80	2.00	1.80	2.50
HPX77-14006NN	4.00 X 06.00		2.00	4.10	4.00	6.00	8.00	1.00	2.50	3.10	3.80
HPX77-14008NN	4.00 X 08.00	2.00	4.00	4.10	4.00	8.00	8.00	1.00	2.50	3.10	3.80
HPX77-14010NN	4.00 X 10.00	4.00	6.00	4.10	4.00	10.00	8.00	1.00	2.50	3.10	3.80
HPX77-14013NN	4.00 X 13.00	7.00	9.00	4.10	4.00	13.00	8.00	1.00	2.50	3.10	3.80
HPX77-14016NN	4.00 X 16.00	10.00	12.00	4.10	4.00	16.00	8.00	1.00	2.50	3.10	3.80
HPX77-14018NN	4.00 X 18.00	12.00	14.00	4.10	4.00	18.00	8.00	1.00	2.50	3.10	3.80
HPX77-14020NN	4.00 X 20.00	14.00	16.00	4.10	4.00	20.00	8.00	1.00	2.50	3.10	3.80

Part Number Call and Explanation

PART NUMBER EXAMPLE – HP - X77 - 1 - 30 - 06 - N - N

HP	HYDRAPOP
X77	STAINLESS STEEL / STAINLESS STEEL
1	HEAD TYPE DOME
30	RIVET SHELL DIAMETER 3.0 MM
06	RIVET SHELL LENGTH
N	SHELL FINISH NATURAL
N	STEM FINISH NATURAL

Special / Custom made sizes also available on request.

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Website : www.avlock.co.in

Technical Data Sheet

Hydrapop - HPX77

MATERIAL

HEAD TYPE: DOME HEAD

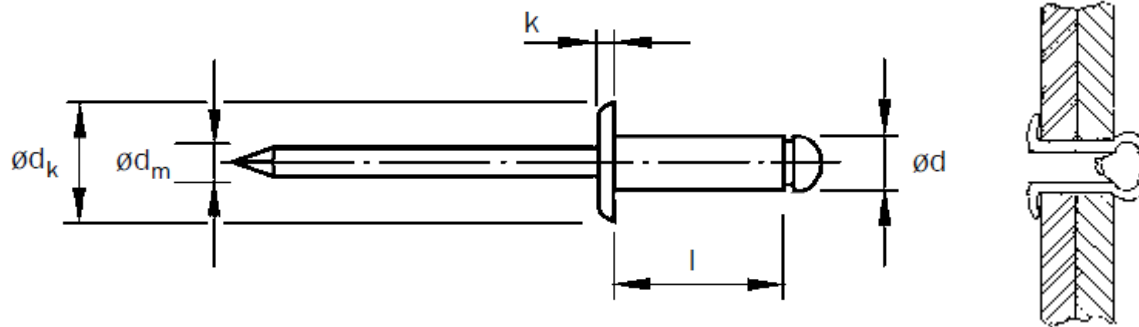
BODY: STAINLESS STEEL

MANDREL: STAINLESS STEEL

FINISH

BODY: NATURAL

MANDREL: NATURAL



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		l	Ødk	k	Ødm	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.	Max.	Max.	Max.			
HPX77-14808NN	4.80 X 08.00	1.50	3.00	4.90	4.80	8.00	9.50	1.10	2.90	4.50	6.00
HPX77-14810NN	4.80 X 10.00	3.00	5.00	4.90	4.80	10.00	9.50	1.10	2.90	4.50	6.00
HPX77-14812NN	4.80 X 12.00	5.00	7.00	4.90	4.80	12.00	9.50	1.10	2.90	4.50	6.00
HPX77-14814NN	4.80 X 14.00	7.00	9.00	4.90	4.80	14.00	9.50	1.10	2.90	4.50	6.00
HPX77-14816NN	4.80 X 16.00	9.00	11.00	4.90	4.80	16.00	9.50	1.10	2.90	4.50	6.00
HPX77-14818NN	4.80 X 18.00	11.00	13.00	4.90	4.80	18.00	9.50	1.10	2.90	4.50	6.00
HPX77-14820NN	4.80 X 20.00	13.00	15.00	4.90	4.80	20.00	9.50	1.10	2.90	4.50	6.00
HPX77-15008NN	5.00 X 08.00	1.50	3.00	5.10	5.00	8.00	9.50	1.10	2.90	5.00	6.50
HPX77-15010NN	5.00 X 10.00	3.00	5.00	5.10	5.00	10.00	9.50	1.10	2.90	5.00	6.50
HPX77-15012NN	5.00 X 12.00	5.00	7.00	5.10	5.00	12.00	9.50	1.10	2.90	5.00	6.50
HPX77-15016NN	5.00 X 16.00	9.00	11.00	5.10	5.00	16.00	9.50	1.10	2.90	5.00	6.50
HPX77-16012NN	6.00 X 12.00	4.00	6.00	6.10	6.00	12.00	12.00	1.50	3.60	6.50	8.83
HPX77-16015NN	6.00 X 15.00	6.00	9.00	6.10	6.00	15.00	12.00	1.50	3.60	6.50	8.83
HPX77-16018NN	6.00 X 18.00	9.00	12.00	6.10	6.00	18.00	12.00	1.50	3.60	6.50	8.83
HPX77-16020NN	6.00 X 20.00	11.00	14.00	6.10	6.00	20.00	12.00	1.50	3.60	6.50	8.83
HPX77-16412NN	6.40 X 12.00	4.50	6.50	6.50	6.40	12.00	12.00	2.10	3.85	6.50	8.85
HPX77-16415NN	6.40 X 15.00	6.50	9.50	6.50	6.40	15.00	12.00	2.10	3.85	6.50	8.85
HPX77-16418NN	6.40 X 18.00	9.50	12.50	6.50	6.40	18.00	12.00	2.10	3.85	6.50	8.85
HPX77-16420NN	6.40 X 20.00	11.50	14.50	6.50	6.40	20.00	12.00	2.10	3.85	6.50	8.85
HPX77-16425NN	6.40 X 25.00	17.00	20.00	6.50	6.40	25.00	12.00	2.10	3.85	6.50	8.85

Part Number Call and Explanation

PART NUMBER EXAMPLE – HP - X77 - 1 - 48 - 08 - N - N

HP	HYDRAPOP
X77	STAINLESS STEEL / STAINLESS STEEL
1	HEAD TYPE DOME
48	RIVET SHELL DIAMETER 4.8 MM
08	RIVET SHELL LENGTH
N	SHELL FINISH NATURAL
N	SHELL FINISH NATURAL

Special / Custom made sizes also available on request.

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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Technical Data Sheet

Hydrapop - HPX77

MATERIAL

HEAD TYPE: COUNTERSUNK

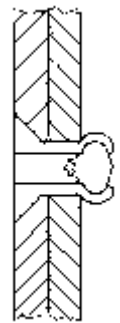
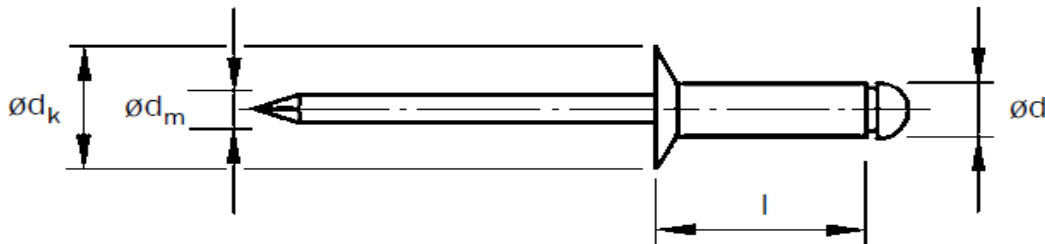
BODY: STAINLESS STEEL

MANDREL: STAINLESS STEEL

FINISH

BODY: NATURAL

MANDREL: NATURAL



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		l	ϕd_k	ϕd_m	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.					
HPX77-23206NN	3.20 X 06.00	1.50	2.50	3.30	3.20	6.00	6.00	2.00	1.80	2.50
HPX77-23208NN	3.20 X 08.00	2.50	4.50	3.30	3.20	8.00	6.00	2.00	1.80	2.50
HPX77-23210NN	3.20 X 10.00	4.50	6.50	3.30	3.20	10.00	6.00	2.00	1.80	2.50
HPX77-23212NN	3.20 X 12.00	6.50	8.50	3.30	3.20	12.00	6.00	2.00	1.80	2.50
HPX77-24006NN	4.00 X 06.00		2.00	4.10	4.00	6.00	7.50	2.50	3.10	3.80
HPX77-24008NN	4.00 X 08.00	2.00	4.00	4.10	4.00	8.00	7.50	2.50	3.10	3.80
HPX77-24010NN	4.00 X 10.00	4.00	6.00	4.10	4.00	10.00	7.50	2.50	3.10	3.80
HPX77-24012NN	4.00 X 12.00	6.00	8.00	4.10	4.00	12.00	7.50	2.50	3.10	3.80
HPX77-24015NN	4.00 X 15.00	9.00	11.00	4.10	4.00	15.00	7.50	2.50	3.10	3.80
HPX77-24808NN	4.80 X 08.00	1.50	3.00	4.90	4.80	8.00	9.00	2.90	4.50	6.00
HPX77-24810NN	4.80 X 10.00	3.00	5.00	4.90	4.80	10.00	9.00	2.90	4.50	6.00
HPX77-24812NN	4.80 X 12.00	5.00	7.00	4.90	4.80	12.00	9.00	2.90	4.50	6.00
HPX77-24815NN	4.80 X 15.00	8.00	10.00	4.90	4.80	15.00	9.00	2.90	4.50	6.00
HPX77-24818NN	4.80 X 18.00	11.00	13.00	4.90	4.80	18.00	9.00	2.90	4.50	6.00
HPX77-24821NN	4.80 X 21.00	14.00	16.00	4.90	4.80	21.00	9.00	2.90	4.50	6.00
HPX77-24825NN	4.80 X 25.00	18.00	20.00	4.90	4.80	25.00	9.00	2.90	4.50	6.00

Special / Custom made sizes also available on request.

Part Number Call and Explanation

PART NUMBER EXAMPLE – HP - X77 - 2 - 30 - 06 - N - N

HP	HYDRAPOP
X77	STAINLESS STEEL / STAINLESS STEEL
2	HEAD TYPE COUNTERSUNK
30	RIVET SHELL DIAMETER 3.0 MM
06	RIVET SHELL LENGTH
N	NATUTAL
N	NATURAL

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Technical Data Sheet

Hydrapop- HPA22

MATERIAL

HEAD TYPE: DOME HEAD

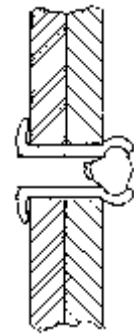
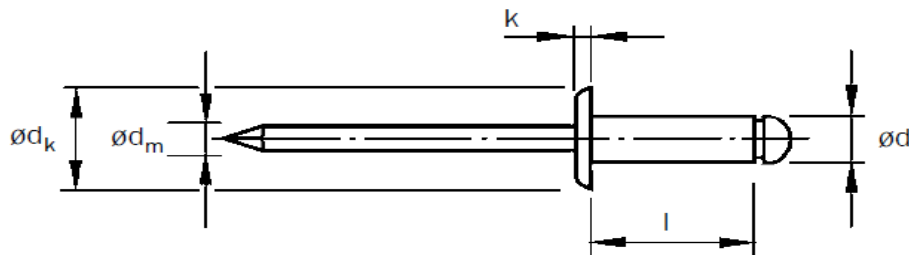
BODY: ALUMINIUM ALLOY 5052

MANDREL: ALUMINIUM ALLOY 5052

FINISH

BODY: POLISHED

MANDREL: POLISHED



All Dimensions are in millimeters

Part Number	Size	Grip Range		Hole Size		l	Ødk	k	Ødm	Shear KN	Tensile KN
		Min.	Max.	Min.	Max.						
HPA22-13206PP	3.20 X 06.00	1.5	3.5	3.3	3.2	6.0	6.5	0.8	1.95	0.535	0.670
HPA22-13208PP	3.20 X 08.00	3.5	5.5	3.3	3.2	8.0	6.5	0.8	1.95	0.535	0.670
HPA22-13210PP	3.20 X 10.00	5.5	7.5	3.3	3.2	10.0	6.5	0.8	1.95	0.535	0.670
HPA22-13212PP	3.20 X 12.00	7.5	9.5	3.3	3.2	12.0	6.5	0.8	1.95	0.535	0.670
HPA22-13214PP	3.20 X 14.00	9.5	11.5	3.3	3.2	14.0	6.5	0.8	1.95	0.535	0.670
HPA22-13216PP	3.20 X 16.00	11.5	13.5	3.3	3.2	16.0	6.5	0.8	1.95	0.535	0.670
HPA22-14006PP	4.00 X 06.00	1.5	3.0	4.1	4	6.0	8	1	2.45	0.845	1.025
HPA22-14008PP	4.00 X 08.00	3.0	5.0	4.1	4	8.0	8	1	2.45	0.845	1.025
HPA22-14010PP	4.00 X 10.00	5.0	7.0	4.1	4	10.0	8	1	2.45	0.845	1.025
HPA22-14012PP	4.00 X 12.00	7.0	9.0	4.1	4	12.0	8	1	2.45	0.845	1.025
HPA22-14014PP	4.00 X 14.00	9.0	11.0	4.1	4	14.0	8	1	2.45	0.845	1.025
HPA22-14016PP	4.00 X 16.00	11.0	13.0	4.1	4	16.0	8	1	2.45	0.845	1.025
HPA22-14808PP	4.80 X 08.00	2.5	4.5	4.9	4.8	8.0	9.5	1.1	2.90	1.155	1.425
HPA22-14810PP	4.80 X 10.00	4.5	6.5	4.9	4.8	10.0	9.5	1.1	2.90	1.155	1.425
HPA22-14812PP	4.80 X 12.00	6.5	8.5	4.9	4.8	12.0	9.5	1.1	2.90	1.155	1.425
HPA22-14814PP	4.80 X 14.00	8.5	10.5	4.9	4.8	14.0	9.5	1.1	2.90	1.155	1.425
HPA22-14816PP	4.80 X 16.00	10.5	12.5	4.9	4.8	16.0	9.5	1.1	2.90	1.155	1.425
HPA22-14818PP	4.80 X 18.00	12.5	14.5	4.9	4.8	18.0	9.5	1.1	2.90	1.155	1.425
HPA22-14820PP	4.80 X 20.00	14.5	16.5	4.9	4.8	20.0	9.5	1.1	2.90	1.155	1.425
HPA22-14825PP	4.80 X 25.00	19.5	21.5	4.9	4.8	25.0	9.5	1.1	2.90	1.155	1.425

Part Number Call and Explanation

PART NUMBER EXAMPLE – HP - A22 - 1 - 32 - 06 - P - P

HP	HYDRAPOP
A22	ALLUMINIUM ALLOY 5052 / ALLUMINIUM ALLOY 5052
1	HEAD TYPE DOME
32	RIVET SHELL DIAMETER 3.2 MM
06	RIVET SHELL LENGTH
P	SHELL FINISH POLISHED
P	STEM FINISH POLISHED

Special / Custom made sizes also available on request.

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AVLOCK INTERNATIONAL
INDIA PRIVATE LIMITED

Notes:



Notes:



Our Presence



Contact Us

India

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