



Speed Fix

PIPE HANGERS

FASTENERS

&

SUPPORT SYSTEMS



www.speed-fix.com

Certificates

Why UL Listed Certificate is important?

Although you can choose alternate testing labs for safety certification, the standards set by UL are the benchmark all other testing labs adhere to. However, UL certification may be more challenging to obtain, as the process is more comprehensive and rigorous. Getting UL listed is important for the following benefits:

- Stricter requirements for certification
- Ongoing third-party safety verification
- Superior track record
- Reliability and consistency



Stricter requirements for certification: UL certification is the world's top-rated safety certification because the testing process is more comprehensive and rigorous and the requirements are stricter. UL first tests for electrical safety and mechanical safety and then performs more extensive testing for durability, resistance and longevity. Durability testing is typically performed under adverse conditions so consumers know they are getting a safe, high-quality product. UL also applies strict quality control, requiring that each individual component is tested separately.

- **Ongoing third-party safety verification:** Local field representatives from UL visit manufacturers several times a year to serve the ongoing safety certification, ensuring the UL mark is applied only to products that meet the UL requirements. Visits are unscheduled and unannounced to verify the manufacturer maintains all the required safety and quality standards.
- **Superior track record:** Compared to other safety certifications, UL has a superior track record. The organization has a long-standing reputation after more than a century of work. Each time a manufacturer certifies a new product, they benefit from UL's reputation that accompanies their seal of approval. UL is the most well-known Nationally Recognized Testing Laboratory, and it is also the only testing lab that is recognized worldwide and operates in various countries.
- **Reliability and consistency:** UL certification is also more reliable and consistent in comparison to other safety certifications, as UL is a nonprofit organization dedicated to ensuring consumer safety. Manufacturers do not need membership in a trade organization or professional relationships to get UL certification.

Material List

NO.	Description	Area of application	Manufacturer	Origin
1. HANGERS AND SUPPORTS				
1.1	Variable Spring Hanger	MEP Work	Speed fix	Egypt
1.2	180o Shield	MEP Work	Speed fix	Egypt
1.3	Pipe Saddle	MEP Work	Speed fix	Egypt
1.4	Beam Clamp	MEP Work	Speed fix	Egypt
1.5	Welded Beam Attachment	MEP Work	Speed fix	Egypt
1.6	Clevis Hanger	MEP Work	Speed fix	Egypt
1.7	Clevis Roller Hanger	MEP Work	Speed fix	Egypt
1.8	C.I. Roll Stand	MEP Work	Speed fix	Egypt
1.9	Adjustable C.I. Roll Stand	MEP Work	Speed fix	Egypt
1.10	Adjustable Pipe Stanchion	MEP Work	Speed fix	Egypt
1.11	Single Bolt Riser Clamp	MEP Work	Speed fix	Egypt
1.12	Double Bolt Pipe Clamp	MEP Work	Speed fix	Egypt
1.13	U-Bolts	MEP Work	Speed fix	Egypt
1.14	Welded Steel Bracket	MEP Work	Speed fix	Egypt
1.15	Insert	MEP Work	Speed fix	Egypt
1.16	Continuous Slotted Insert	MEP Work	Speed fix	Egypt
1.17	Seismic Pipe Clamp	MEP Work	Speed fix	Egypt
1.18	Two Rod Roller Hanger	MEP Work	Speed fix	Egypt
1.19	Wood Support	MEP Work	Speed fix	Egypt
2. FIXATION SYSTEM				
4.1	Anchor Bolt	MEP Work	Speed fix	EGYPT
4.2	Drop in Anchor	MEP Work	Speed fix	EGYPT
5. Consumables				
5.1	Treaded rod	MEP Work	Speed fix	Egypt
5.2	Hex bolt	MEP Work	Speed fix	Egypt
5.3	Nuts	MEP Work	Speed fix	Egypt
5.4	Washers	MEP Work	Speed fix	Egypt



Technical Datasheet



**Technical
Datasheet**

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▶ Technical Datasheet

✓ Materials

Carbon Steel

- Carbon steel is used in the manufacture of pipe hangers and supports. Excellent strength characteristics and adaptability to cold forming provide a well-engineered design. By cold forming the steel, mechanical properties are increased, adding to the structural integrity of the fabricated hanger.

Stainless Steel

- AISI Type 304 and Type 316 are non-magnetic members of the austenitic stainless-steel group. Several conditions make the use of stainless-steel ideal. These include reducing long term maintenance costs, high ambient temperatures, appearance, and stable structural properties such as yield strength, and high creep resistance



✓ FINISHES

Zinc Coatings

- Protective zinc coatings are available on a number of pipe hangers and accessories in three basic forms: Electro-galvanized, pre-galvanized, and hot-dip galvanized after fabrication. The corrosion resistance of zinc is directly related to its thickness and the environment. For example, a 0.2 mil (5 μm) coating will last twice as long as a 0.1 mil (2.5 μm) coating in the same environment.

Pre-Galvanized Zinc ## ASTM A653 Coating Designation G90

- Pre-galvanized zinc is produced by continuously rolling the steel coils or sheets through molten zinc at the steel mills. This is also known as "mill galvanized" or "hot-dipped mill galvanized". Coils are then slit to size for fabrication of pipe hangers. Coating thicknesses of G90, is 0.90 ounces per square foot (0.27 kg/m²) of steel surface. Pre-galvanized steel is not generally recommended for use outdoors in industrial environments, but is suitable for extended exposure in dry or mildly corrosive atmospheres.

Hot-Dip Galvanized After Fabrication ## ASTM A123

- After a pipe hanger or fitting has been fabricated, it is completely immersed in a bath of molten zinc. A metallurgical bond is formed, resulting in a zinc coating that completely coats all surfaces, including edges. Zinc coatings of this specification have a minimum thickness of 1.50 ounces per square foot (0.45 kg/m²) on each side or a total of 3.0 ounces per square foot (0.9 kg/m²) of steel. Hot-dip galvanized after fabrication is recommended for outdoor exposure. For best results, a zinc rich paint should be applied to field cuts. The zinc rich paint will provide immediate protection for field cuts and eliminate the short time period for galvanic action to "heal" the damaged coating.



CHARTS & TABLES

- Charts and tables in this section are compiled from information published by recognized organizations and are intended for use as a guide only. We recommend that users of this information determine the validity of such information as applied to their own applications.

TORQUE

- The torque values in this catalogue are to be used as a guide only. The relationship between the applied torque or torque wrench reading and the actual tension created in the bolt may be substantially different. Important factors affecting torque-tension relationships include friction under the bolt head or nut, hole tolerances, and torque wrench tolerances. Accuracy of many commercial torque wrenches may vary as much as plus or minus 25% .

REFERENCES

- ASTM B633 ## Specification for Electrodeposited Coatings of Zinc on Iron and Steel
- ASTM A123 ## Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
- ASTM A653 ## Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated by the Hot-Dip Process
- EN 10025 ## Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, and High-Strength Low-Alloy with Improved Formability
- MSS SP-58 ## Manufacturers Standardization Society: Pipe Hangers and Supports Materials, Design, and Manufacture
- MSS SP-69 ## Manufacturers Standardization Society: Pipe Hangers and Supports Selection and Application
- NFPA 13 ## Installation of Sprinkler Systems.

1.12 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace
1. Valves that fail in materials or workmanship within five years' warranty period.
 2. Piping and fittings that fail in materials or workmanship within one year' warranty period.
 3. Sprinklers that fail in materials or workmanship within one year' warranty period.
- B. The warranty from date of taking over certificate.

PART 2 PRODUCTS

2.01 PIPING MATERIALS

- A. Comply with requirements in "Piping Schedule" Article for applications of pipe, tube, and fitting materials, and for joining methods for specific services, service locations, and pipe sizes.

2.02 HDPE PIPE AND FITTINGS

- A. HDPE, PE100, SDR 11, according to DIN 8074, ISO 4427&ES 1832, to have high corrosion, chemical and weather resistance
1. Fittings socket- or butt-fusion type, with SDR number matching pipe

2.03 STEEL PIPE AND FITTINGS

- A. Standard Weight, Black-Steel Pipe: ASTM A 53/A 53M, Type E or S, Grade B. Pipe perform weld end as per ANSI B16.9, DIN 2559 to match joining method.
- B. Traceable Mill Test Certificates and country of origin should be provided with pipes.
- C. Galvanized and Uncoated, Steel Couplings: ASTM A 865, threaded or equivalent.
- D. Galvanized and Uncoated, Gray-Iron Threaded Fittings: ASME B16.4, Class 125, standard pattern or equivalent.
- E. Malleable- or Ductile-Iron Unions: UL 860.
- F. Cast-Iron Flanges: ASME 16.1, Class 125 or equivalent.
- G. Steel Flanges and Flanged Fittings: ASME B16.5, Class 150 or equivalent.
- H. Steel Welding Fittings: ASTM A 234/A 234M and ASME B16.9 or equivalent.
- I. Steel Pressure-Seal Fittings: UL 213, FM-approved, 175-psig (1200-kPa) or 250-psig (1725-kPa) pressure rating as applicable with steel housing, rubber O-rings, and pipe stop; for use with fitting manufacturers' pressure-seal tools.

2.04 PIPING JOINING MATERIALS

- A. Pipe-Flange Gasket Materials: AWWA C110, rubber, flat face, 1/8 inch (3.2 mm) thick or ASME B16.21, nonmetallic and asbestos free or equivalent.
1. Class 125, Cast-Iron Flanges and Class 150, Bronze Flat-Face Flanges: Full-face gaskets.
 2. Class 250, Cast-Iron Flanges and Class 300, Steel Raised-Face Flanges: Ring-type gaskets.
- B. Metal, Pipe-Flange Bolts and Nuts: ASME B18.2.1, carbon steel or equivalent.
- C. Welding Filler Metals: Comply with AWS D10.12M/D10.12 for welding materials appropriate for wall thickness and chemical analysis of steel pipe being welded or equivalent.



CATALOGUE SPEED FIX 2024

CERTIFICATE OF COMPLIANCE

Certificate Number EX28826
Report Reference EX28826-20221118
Date 2022-November-22

Issued to: Speed-Fix
6 Abo Elmaaty St. Agoza Giza
Cairo 11511 EG

This is to certify that representative samples of HANGERS, PIPE
See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 203 - Standard for Pipe Hanger Equipment for Fire Protection Service

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Deborah Jennings-Conner

Deborah Jennings-Conner, VP Regulatory Services

UL LLC

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Speed Fix

NEVER GIVE UP

Speed-Fix company reserve the right to change the specification, materials and process or the availability of products at any time without prior notice

Company Description

SPEED FIX COMPANY

The company was established in 2018 with a completely different vision from other companies in the supply and manufacture of metals.

Shortly after its establishment, Speed Fix began to produce the suspension systems required by the market, with this breakthrough it began to use international standards in the formation of metals in the field of fixings, which added to us strength and fame in the market and thus increased its competitive strength in the market.

Today, as an applicant of quality standards in our products, our production goes to the largest companies and major sites in Egypt.

Speed Fix renews itself constantly according to the requirements of the local and global market it serves and expands into wider geographical areas by increasing the diversity of its products and continuing these efforts on its development since its establishment without making concessions from the participation of employees and quality standards.

Company MISSION

MISSION

Providing the highest quality Engineering Services, and to implement solutions for achieving full customer satisfaction delivered through the safe technical competence and professional integrity of all our employees.

Words such as integrity, loyalty, and customer satisfaction-while routinely used words without meaning in business today, we have always taken these words seriously. The mission of Speed Fix Company is to build on our reputation for integrity, excellence, experience and leadership as one the nation's finest companies by:

- Continuously improving the quality of our work and services.
- Constantly striving to achieve each client's expectations.
- Maintaining our dedication & momentum to the highest moral principles.

Company MISSION

VISION

Building a partnership with our customers is paramount in creating long term relationships; this has always been the vision and the goal of Speed Fix Company.

Our philosophy has proven that working together with clients as partners, truly does create more than just a business opportunity; it creates a long-term professional relationship.

CONTENT



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- Pipe Clamp without Lining
- Riser Clamp
- Riser Clamp – Four Bolts
- U Strap
- U Strap with Lining
- U Bolt
- U Bolt with Lining
- Beam Clamp
- Offset Clamp
- Offset Hanger
- Two Bolt Pipe Clamp
- Two Bolt Pipe Clamp With Lining
- Three Bolt Pipe Clamp
- Pipe Roller Stand
- Pipe Roller Chair

Adjustable Roller Hanger
Pipe Roller
Pipe Insulation Saddle
Support Channels
Wood Support
Rubber Support
Rubber Inserts - RSI — —
Anti Vibration Pads
Anti Vibration Mounts
Spring Hanger
Wedge Anchor
Drop-In Anchor
Shield Anchor
Hex Bolt DIN-933
Cable Tray Bolt DIN-603
Coupling Nut
Hex Nut DIN-934
Washer DIN-125
Washer DIN-9021
Threaded Rod
Self-Tapping Screw tk
Self-Tapping Screw
Screw Bolt with Hex Bolt DIN-571
Screw Bolt DIN-7981



Speed Fix

Hangers & support

Hangers & Pipe Clamps



Clevis Hanger



PURPOSE

Designed for suspension of insulated or non-insulated stationary pipes

INSTALLATION

Vertical adjustments are possible once the pipe is in place. The lower nut is used to adjust the pipeline to the required elevation. The top nut is used to prevent loosening due to the vibration. The top nut should be tightened after adjustment. The top nut must securely be tightened to assure proper performance of hanger after adjustment

CONSTRUCTION

Consists of a yoke and a support strap made from shaped carbon steel strip and a joining bolt. 15° swing in either direction allows pipe to easily feed through. Pipe will not pinch when installing. Engineered design aligns bolt holes for quicker overhead installation.

MATERIALS

Carbon Steel and any other materials can be provided upon request

APPROVALS

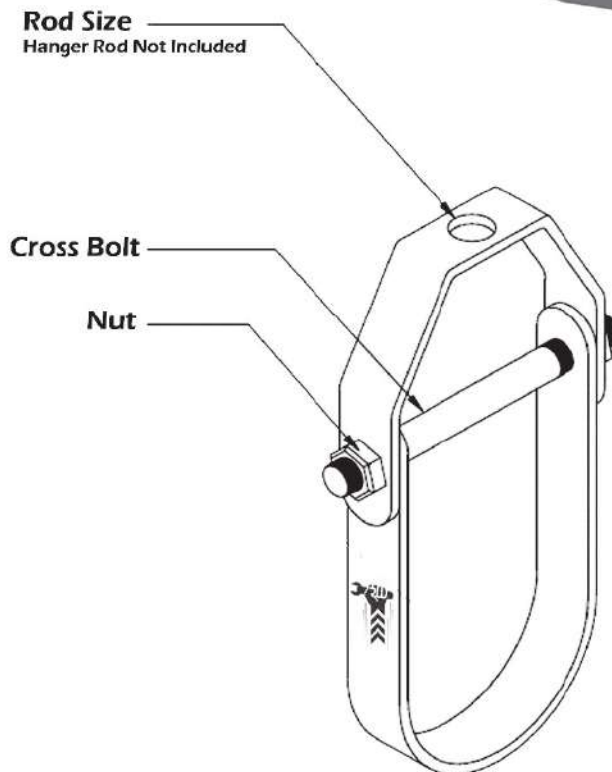
Manufactured to follow specifications MSS SP-69 & SP-58 Type 1

FINISH

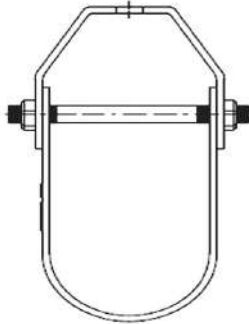
Plain, Electro-Galvanized, Hot Dip Galvanized

MAXIMUM TEMPERATURE

343°C



Clevis Hanger



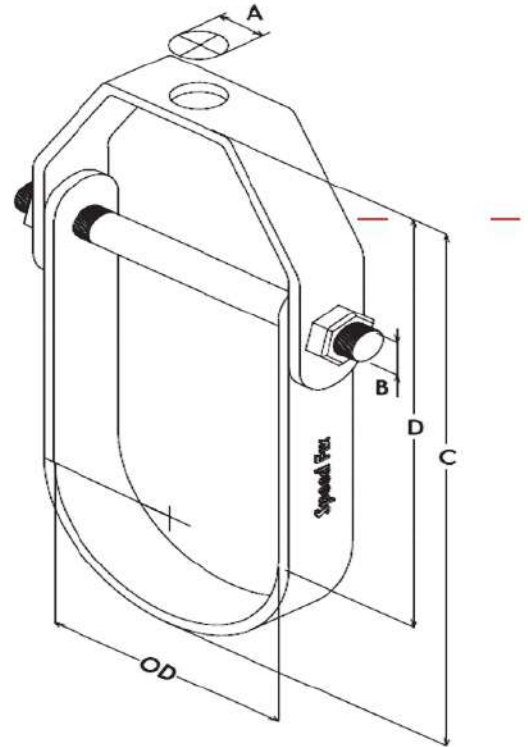
Front View



Side View



Plan View



Size	Size of Pipe		A	B	C	D	MAX LOAD (KN)
	mm	O.D mm					
½	15	23	M 10	M 8	65	50	3.43
¾	20	28	M 10	M 8	73	57	3.43
1	25	34	M 10	M 8	77	62	3.43
1 ¼	32	43	M 10	M 8	89	70	3.43
1 ½	40	49	M 10	M 8	100	77	3.43
2	50	61	M 10	M 8	117	90	5.39
2 ½	65	74	M 12	M10	140	105	5.39
3	80	90	M 12	M10	166	122	6.47
4	100	115	M 12	M10	193	140	8.82
6	150	169	M 16	M 12	265	180	12.25
8	200	220	M 16	M 12	345	250	18.01
10	250	273	M 16	M 12	425	325	26.02
12	300	324	M 16	M 16	505	405	35.14

Note: 1 KN (mass) = 101.97 KG



Clevis Hanger - Economic



PURPOSE

Designed for suspension of insulated or non-insulated stationary pipes.

INSTALLATION

Vertical adjustments are possible once the pipe is in place. The lower nut is used to adjust the pipeline to the required elevation. The top nut is used to prevent loosening due to the vibration. The top nut should be tightened after adjustment. The top nut must securely be tightened to assure proper performance of hanger after adjustment.

CONSTRUCTION

Consists of a yoke and a support strap made from shaped carbon steel strip and a joining bolt. 15° swing in either direction allows pipe to easily feed through. Pipe will not pinch when installing. Engineered design aligns bolt holes for quicker overhead installation.

MATERIALS

Carbon Steel and any other materials can be provided upon request.

APPROVALS

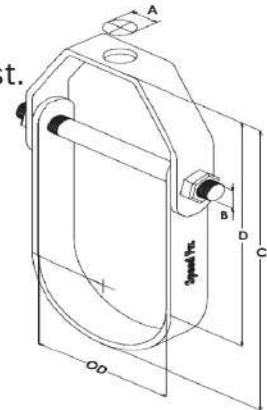
Manufactured to follow specifications MSS SP-69 & SP-58 Type 1.

FINISH

Plain, Electro-Galvanized, Hot Dip Galvanized.

MAXIMUM TEMPERATURE

343°C.



Size Inch	Size of Pipe		A	B	C mm	D mm	MAX LOAD (KN)
	mm	O.D mm					
½	15	23	M10	M8	65	50	2.7
¾	20	28	M10	M8	73	57	2.7
1	25	34	M10	M8	77	62	2.7
1¼	32	43	M10	M8	89	70	2.7
1½	40	49	M10	M8	100	77	2.7
2	50	61	M10	M8	117	90	4.6
2½	65	74	M12	M10	140	105	4.6
3	80	90	M12	M10	166	122	5
4	100	115	M12	M10	193	140	5.5
6	150	169	M16	M12	265	180	6.3
8	200	220	M16	M12	345	250	8
10	250	273	M16	M12	425	325	8.6
12	300	324	M16	M16	505	405	12

Note: 1 KN (mass) = 101.97 KG



Clevis Hanger with Lining

PURPOSE

Designed for suspension of insulated or non-insulated stationary pipes.

INSTALLATION

Vertical adjustments are possible once the pipe is in place. The lower nut is used to adjust the pipeline to the required elevation. The top nut is used to prevent loosening due to the vibration. The top nut should be tightened after adjustment. The top nut must securely be tightened to assure proper performance of hanger after adjustment.



CONSTRUCTION

Consists of a yoke and a support strap made from shaped carbon steel strip and a joining bolt. 15° swing in either direction allows pipe to easily feed through. Pipe will not pinch when installing. Engineered design aligns bolt holes for quicker overhead installation.

MATERIALS

Carbon Steel and any other materials can be provided upon request.

APPROVALS

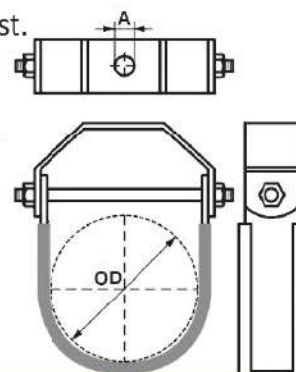
Manufactured to follow specifications MSS SP-69 & SP-58 Type 10.

FINISH

Plain, Electro-Galvanized, Hot Dip Galvanized.

TEMPERATURE

from -20 °C to +110 °C.



Size Inch	Size of Pipe		A	B	C mm	D mm	MAX LOAD (KN)
	mm	O.D mm					
½	15	23	M 10	M 8	65	50	3.43
¾	20	28	M 10	M 8	73	57	3.43
1	25	34	M 10	M 8	77	62	3.43
1 ¼	32	43	M 10	M 8	89	70	3.43
1 ½	40	49	M 10	M 8	100	77	3.43
2	50	61	M 10	M 8	117	90	5.39
2 ½	65	74	M 12	M10	140	105	5.39
3	80	90	M 12	M10	166	122	6.47
4	100	115	M 12	M10	193	140	8.82
6	150	169	M 16	M 12	265	180	12.25
8	200	220	M 16	M 12	345	250	18.01
10	250	273	M 16	M 12	425	325	26.02
12	300	324	M 16	M 16	505	405	35.14

Note: 1 KN (mass) = 101.97 KG



Flat Top Clevis Hanger



PURPOSE

Designed for the suspension of non-insulated stationary pipe where space is limited.

INSTALLATION

Upper locknut must be tightened securely to assure proper hanger performance.

PVC lining can be used to prevent electrolysis between the pipe

in case of copper tubes & hanger's metallic bottom.

Also, it acts to reduce noise and vibration in pipe or tubing systems.

MATERIALS

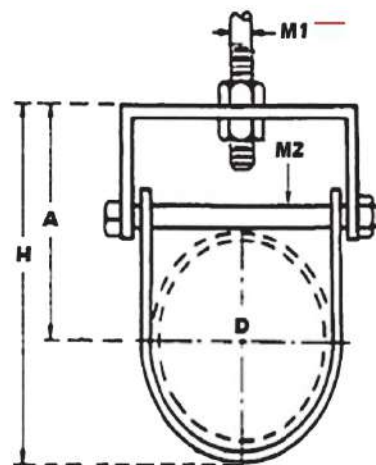
Carbon Steel and any other materials can be provided upon request.

APPROVALS

Manufactured to follow specifications of MSS SP-69 & SP-58 Type 1.

FINISH

Plain, Electro-Galvanized, Hot Dip Galvanized.



Size Inch	Size of Pipe		M1	M2	H	A	D	MAX LOAD (KN)
	mm	O.D mm						
½	15	23	M 10	M 8	50	40	23	2.7
¾	20	28	M 10	M 8	58	43	28	2.7
1	25	34	M 10	M 8	62	47	34	2.7
1 ¼	32	43	M 10	M 8	74	54	43	2.7
1 ½	40	49	M 10	M 8	85	61	49	2.7
2	50	61	M 10	M 8	102	66	61	4.6
2 ½	65	74	M 12	M10	126	84	74	4.6
3	80	90	M 12	M10	140	90	90	5
4	100	115	M 12	M10	150	112	115	5.5
6	150	169	M 16	M 12	236	145	169	6.3

Note: 1 KN (mass) = 101.97 KG



Sprinkler Hanger



PURPOSE

Designed to suspend non-insulated stationary pipes and Sprinkler system installation

INSTALLATION

Vertical adjustments are possible once the pipe is in place. The swivel nut is knurled to provide a gripping surface when adjusting the pipe elevation

CONSTRUCTION

Consists of a piece of carbon steel shaped to support pipe. Gives Double thickness at the support. Most suitable for fire extinguishing pipes installation

MATERIALS

Carbon Steel and any other materials can also be provided upon request

APPROVALS

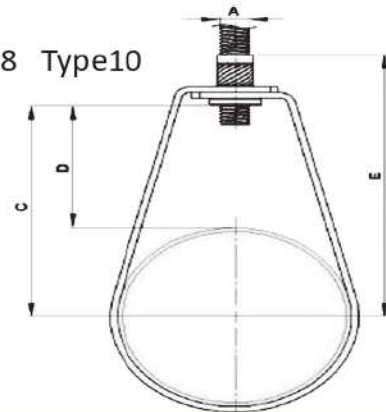
- Manufactured to follow specifications MSS SP-69 & SP-58 Type10
- Manufactured to Comply with NFPA 13

FINISH

Plain, Electro-Galvanized, Hot Dip Galvanized

MAXIMUM TEMPERATURE

343°C



Size of Pipe		A	C mm	D mm	E mm	MAX LOAD (KN)
Inch	mm					
¾	20	M 10	48.3	33.3	70.3	1.7
1	25	M 10	57.3	39.3	79.3	1.7
1 ¼	32	M 10	64.3	41.3	86.3	1.7
1 ½	40	M 10	69.3	43.3	91.3	1.7
2	50	M 10	77.3	44.3	99.3	1.7
2 ½	65	M 10	92.3	53.3	114.3	2.6
3	80	M 10	109.3	63.3	131.3	2.6
4	100	M 10	135.3	77.3	157.3	4.4
6	150	M 12	186.0	101.1	223.0	5.5
8	200	M 16	252.0	140.0	288.0	5.5
10	250	M 16	346.5	209.0	378.5	5.5

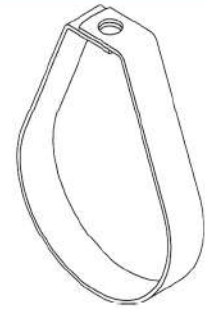
Note: 1 KN (mass) = 101.97 KG



Sprinkler Hanger without a Nut

PURPOSE

Designed to suspend non-insulated stationary pipes and Sprinkler system installation



INSTALLATION

Vertical adjustments are possible once the pipe is in place. The lower nut is used to adjust the pipeline to the required elevation. The top nut must securely be tightened to assure proper performance of hanger after adjustment

CONSTRUCTION

Consists of a piece of carbon steel shaped to support pipe. Gives Double thickness at the support. Most suitable for fire extinguishing pipes installation

MATERIALS

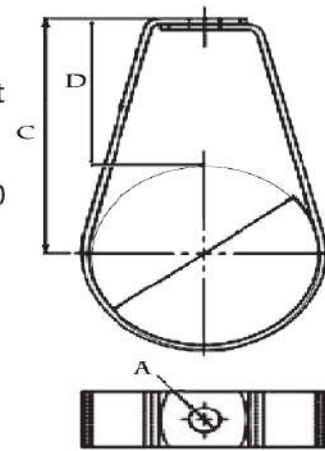
Carbon Steel and any other materials can be provided upon request

APPROVALS

- Manufactured to follow specifications MSS SP-69 & SP-58 Type 10
- Manufactured to Comply with NFPA 13

FINISH

Plain, Electro-Galvanized, Hot Dip Galvanized



MAXIMUM TEMPERATURE

343°C

Size of Pipe		A	C mm	D mm	MAX LOAD (KN)
Inch	mm				
¾	20	M 10	48.3	33.3	1.7
1	25	M 10	57.3	39.3	1.7
1 ¼	32	M 10	64.3	41.3	1.7
1 ½	40	M 10	69.3	43.3	1.7
2	50	M 10	77.3	44.3	1.7
2 ½	65	M 10	92.3	53.3	2.6
3	80	M 10	109.3	63.3	2.6
4	100	M 10	135.3	77.3	4.4
6	150	M 12	186.0	101.1	5.5
8	200	M 16	252.0	140.0	5.5
10	250	M 16	346.5	209.0	5.5

Note: 1 KN (mass) = 101.97 KG



Pipe Clamp with Lining

PURPOSE

Used for mounting of pipes to the walls (vertical/horizontal) ceilings and floors
Permits installation before and after pipe is in place

LINING FOR

- Noise reduction level up to 15 dB
- Vibration reduction
- Partial compensation of thermal expansion



CONSTRUCTION

Consists of piece carbon steel shaped to wrap around the pipe, made from shaped carbon steel plate. The selection of the proper pipe hanger with Epdm lining depends upon the temperature of the piping system and load to be carried

MATERIALS

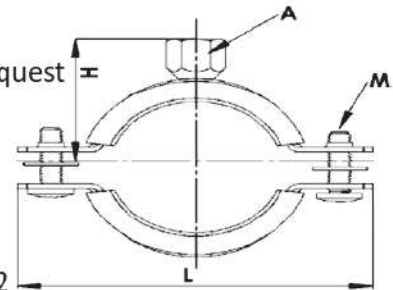
Carbon Steel. Any other materials can also be provided upon request

TEMPERATURE

-20°C to 110°C

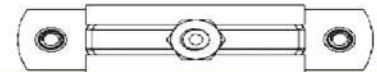
APPROVALS

Manufactured to follow specifications MSS SP-69 & SP-58 Type 12



FINISH AVAILABLE

Plain, Electro-Galvanized, Hot Dip Galvanized



Size of Pipe		L mm	H mm	M	A	Break LOAD (KN)	Rec. LOAD (KN)
Inch	Clamping Range						
½	20-24	67.0	22.0	M 6	M 8	3.9	1.3
¾	25-28	70.0	26.0	M 6	M 8	3.9	1.3
1	32-35	85.0	29.5	M 6	M 8	3.9	1.3
1 ¼	39-46	86.0	33.5	M 6	M 8	4.8	1.6
1 ½	48-53	94.0	37.5	M 6	M 8	4.8	1.6
2	59-66	108.5	46.5	M 6	M 8	4.8	1.6
2 ½	74-80	120.0	55.0	M 6	M 10	6.9	2.3
3	87-94	144.5	62.0	M 6	M 10	6.9	2.3
4	110-116	164.0	69.0	M 6	M 10	7.8	2.6
6	162-170	221.0	95.5	M 6	M 10	7.8	2.6

Note: 1 KN (mass) = 101.97 KG



Pipe Clamp without Lining

PURPOSE

Used for mounting of pipes to the walls (vertical / horizontal) ceilings and floors

GENERAL PROPERTIES

- Permits installation before and after pipe is in place
- Easy and safe assembly through combi side screws
- Side screws are protected against loss during assembly with the help of plastic washers



CONSTRUCTION

Consists of piece carbon steel shaped to wrap around the pipe

MATERIALS

Carbon Steel and any other materials can also be provided upon request

TEMPERATURE

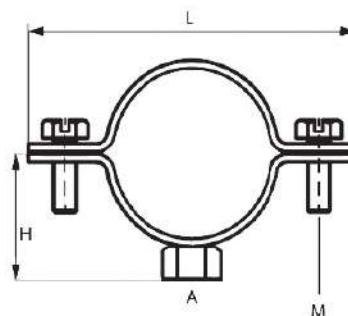
Maximum Temperature 343°C

APPROVALS

Manufactured to follow specifications MSS SP-69 & SP-58 Type 58

FINISH AVAILABLE

Plain, Electro-Galvanized, Hot Dip Galvanized



Size of Pipe		L mm	H mm	M	A	Break LOAD (KN)	Rec. LOAD (KN)
Inch	Clamping Range						
½	20-24	67.0	22.0	M 6	M 8	3.9	1.3
¾	25-28	70.0	26.0	M 6	M 8	3.9	1.3
1	32-35	85.0	29.5	M 6	M 8	3.9	1.3
1 ¼	39-46	86.0	33.5	M 6	M 8	4.8	1.6
1 ½	48-53	94.0	37.5	M 6	M 8	4.8	1.6
2	59-66	108.5	46.5	M 6	M 8	4.8	1.6
2 ½	74-80	120.0	55.0	M 6	M 10	6.9	2.3
3	87-94	144.5	62.0	M 6	M 10	6.9	2.3
4	110-116	164.0	69.0	M 6	M 10	7.8	2.6
6	162-170	221.0	95.5	M 6	M 10	7.8	2.6

Note: 1 KN (mass) = 101.97 KG



Riser Clamp

PURPOSE

Designed to attach to the pipe and to rest on a structural member or floor. It is not designed to have hanger rods attached to it to support the pipe & recommended for the support and / or restraint of vertical steel pipes



CONSTRUCTION

Consists of two carbon steel flat bars bent to shape and held together by two bolts.

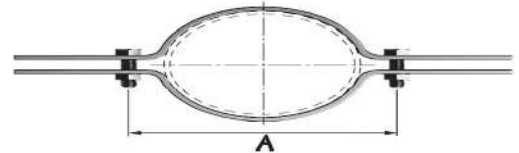
Designed to act as a rigid support or guide for vertical pipes. The clamp should be bolted to the pipe just below support lugs or other attachments that can carry a shear load

MATERIALS

Carbon Steel and any other materials can also be provided upon request

TEMPERATURE

Maximum Temperature is 343°C



APPROVALS

Manufactured to follow specifications MSS SP-69 & SP-58 Type 8

FINISH AVAILABLE

Plain, Electro-Galvanized, Hot Dip Galvanized

Size of Pipe		A mm	Bolt Size	MAX LOAD KG
Inch	OD mm			
½	21.3	57	M 10	750
¾	26.7	68	M 10	750
1	33.4	76	M 10	750
1 ¼	42.1	90	M 10	750
1 ½	48.2	110	M 10	750
2	60.3	130	M 10	1250
2 ½	73.0	142	M 10	1250
3	88.9	161	M 10	1750
4	114.3	190	M 12	1850
6	168.3	258	M 12	2250
8	217.3	333	M 12	2250
10	267.9	409	M 16	3600
12	316.9	467	M 16	3600



Riser Clamp - Four Bolts

PURPOSE

Used as a rigid supports or guides for insulated or plain vertical pipe line to run of piping at each floor level. The friction between the pipe and riser transfers the weight of the pipe through the riser to the building structure. Risers are generally located at floor penetrations, particularly for continuous floor slabs such as concrete. Also available with EPDM Rubber Lined to prevent contact between dissimilar materials minimize condensation and provide noise attenuation

CONSTRUCTION

Consists of two carbon steel flat bars bent to shape and held together by four bolts

MATERIALS

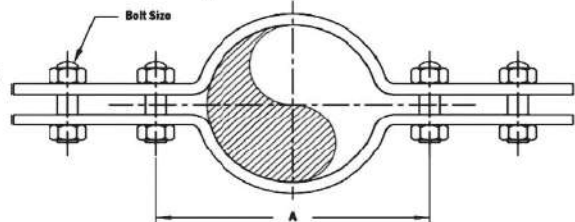
Carbon Steel and any other materials can be provided upon request

APPROVALS

Manufactured to follow specifications MSS SP-69 & SP-58 Type 42

FINISH

Plain, Electro-Galvanized, Hot Dip Galvanized



MAXIMUM TEMPERATURE

343°C

Size of Pipe		A mm	Bolt Size	MAX LOAD KG
Inch	OD mm			
½	21.3	57	M 10	750
¾	26.7	68	M 10	750
1	33.4	76	M 10	750
1 ¼	42.1	90	M 10	750
1 ½	48.2	110	M 10	750
2	60.3	130	M 10	1250
2 ½	73.0	142	M 10	1250
3	88.9	161	M 10	1750
4	114.3	190	M 12	1850
6	168.3	258	M 12	2250
8	217.3	333	M 12	2250
10	267.9	409	M 16	3600
12	316.9	467	M 16	3600



U Strap

PURPOSE

recommended for supporting a piping system with fittings vertically or horizontally to walls or ceilings. It can be used as a restrainer when installed on top of structural wood beams for beam, for limiting pipe movements due to thrust loads during sprinkler system start-up

CONSTRUCTION

Consists of a piece of carbon steel shaped to hold the pipe down to walls or ceilings

MATERIALS

Carbon Steel and any other materials can also be provided upon request

MAXIMUM TEMPERATURE

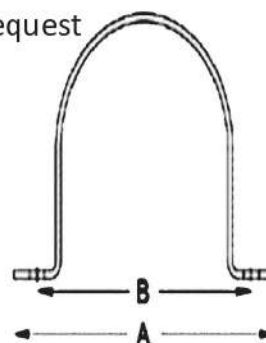
343°C

APPROVALS

Manufactured to follow specifications MSS SP-69 & SP-58 Type 26

FINISH AVAILABLE

Plain, Electro-Galvanized, Hot Dip Galvanized



Size of Pipe (Inch)	OD (mm)	A mm	B mm	Bolt Size	MAX LOAD KG
3/4	26.7	82	57	M8	500
1	33.4	89	64	M8	500
1 1/4	42.1	96	71	M8	500
1 1/2	48.2	102	77	M8	500
2	60.3	114	89	M8	500
2 1/2	73.0	145	113	M8	600
3	88.9	160	128	M8	600
4	114.3	185	153	M8	600
6	168.3	237	205	M10	600
8	219.1	289	257	M10	800
10	273.0	364	323	M18	1250
12	323.8	417	376	M18	1250
14	355.6	447	409	M18	1800
16	406.4	497	459	M18	1800
18	457.2	547	509	M18	1800
20	508.2	599	561	M18	1800
24	609.6	701	663	M18	1800



U Strap with Lining

PURPOSE

Recommended for supporting a piping system with fittings vertically or horizontally to walls or ceilings. It can be used as a restrainer when installed on top of structural wood beams for beam, for limiting pipe movements due to thrust loads during sprinkler system start-up

CONSTRUCTION

- Consists of a piece of carbon steel shaped to hold the pipe down to walls or ceilings
- Lining reduces noise up to 18 dB

MATERIALS

Carbon Steel and any other materials can be provided upon request

APPROVALS

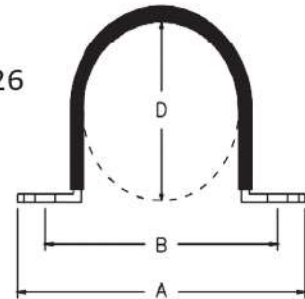
Manufactured to follow specifications MSS SP-69 & SP-58 Type 26

FINISH

Plain, Electro-Galvanized, Hot Dip Galvanized

TEMPERATURE

- 20°C to 110°C



Size of Pipe (Inch)	OD (mm)	A mm	B mm	Bolt Size	MAX LOAD KG
¾	26.7	82	57	M8	500
1	33.4	89	64	M8	500
1 ¼	42.1	96	71	M8	500
1 ½	48.2	102	77	M8	500
2	60.3	114	89	M8	500
2 ½	73.0	145	113	M8	600
3	88.9	160	128	M8	600
4	114.3	185	153	M8	600
6	168.3	237	205	M10	600
8	219.1	289	257	M10	800
10	273.0	364	323	M18	1250
12	323.8	417	376	M18	1250
14	355.6	447	409	M18	1800
16	406.4	497	459	M18	1800
18	457.2	547	509	M18	1800
20	508.2	599	561	M18	1800
24	609.6	701	663	M18	1800



U Bolt

PURPOSE

Used to secure piping to structural members. When the piping is below the structural member, the U-Bolt provides vertical support and restricts lateral movement while allowing for axial movement. When the piping system is above the structural member, the U-Bolt restricts lateral movement and upward movement while allowing axial movement of the piping

CONSTRUCTION

Consists of a piece of carbon steel shaped to hold the pipe down to walls or ceilings provided with four standard hex nuts and has a longer straight threaded length

MATERIALS

Carbon Steel and any other materials can also be provided upon request

TEMPERATURE

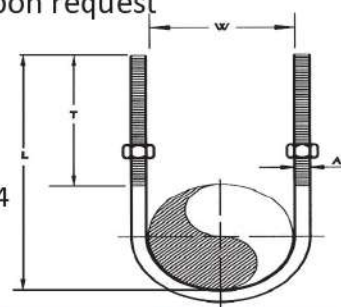
Maximum Temperature 399°C

APPROVALS

Manufactured to follow specifications MSS SP-69 & SP-58 Type 24

FINISH AVAILABLE

Plain, Electro-Galvanized, Hot Dip Galvanized



Size of Pipe (Inch)	OD (mm)	W	L	T	A	MAX LOAD KG
¾	26.7	27	77	50	M10	550
1	33.4	34	85	50	M10	550
1 ¼	42.1	43	93	50	M10	550
1 ½	48.2	48	100	50	M10	550
2	60.3	60	110	50	M10	550
2 ½	73.0	76	127	50	M12	900
3	88.9	89	140	50	M12	900
4	114.3	115	165	50	M12	900
6	168.3	168	220	50	M12	900
8	219.1	219	295	75	M16	1900
10	273.0	273	370	100	M20	3200
12	323.8	324	420	100	M20	3200
14	355.6	356	455	100	M20	3200
16	406.4	406	505	100	M20	3200
18	457.2	457	555	100	M24	4400
20	508.0	508	605	100	M24	4400
24	609.6	610	710	100	M24	4400



U Bolt with Lining

PURPOSE

Used to secure piping to structural members. When the piping is below the structural member, provide vertical support and restricts lateral movement while allowing for axial movement. When the piping system is above the structural member, it restricts lateral movement and upward movement while allowing axial movement of the piping

CONSTRUCTION

Consists of a piece of carbon steel shaped to hold the pipe, provided with four standard hex nuts and has a longer straight threaded length. Lining reduces noise up to 18 dB

MATERIALS

Carbon Steel and any other materials can be provided upon request

APPROVALS

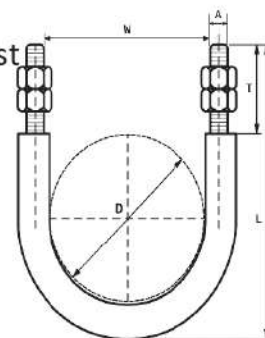
Manufactured to follow specifications MSS SP-69 & SP-58 Type 24

FINISH

Plain, Electro-Galvanized, Hot Dip Galvanized

TEMPERATURE

- 20°C to 110°C



Size of Pipe (Inch)	OD (mm)	W	L	T	A	MAX LOAD KG
¾	26.7	27	77	50	M10	550
1	33.4	34	85	50	M10	550
1 ¼	42.1	43	93	50	M10	550
1 ½	48.2	48	100	50	M10	550
2	60.3	60	110	50	M10	550
2 ½	73.0	76	127	50	M12	900
3	88.9	89	140	50	M12	900
4	114.3	115	165	50	M12	900
6	168.3	168	220	50	M12	900
8	219.1	219	295	75	M16	1900
10	273.0	273	370	100	M20	3200
12	323.8	324	420	100	M20	3200
14	355.6	356	455	100	M20	3200
16	406.4	406	505	100	M20	3200
18	457.2	457	555	100	M24	4400
20	508.0	508	605	100	M24	4400
24	609.6	610	710	100	M24	4400



Beam Clamp

PURPOSE

Structural attachment to top or bottom of metal beams, purlins, channels or angel iron.

SIZE RANGE

M8, M10 and M12

MATERIAL

Ductile Iron, Hardened Steel cup point set screw and lock nut.

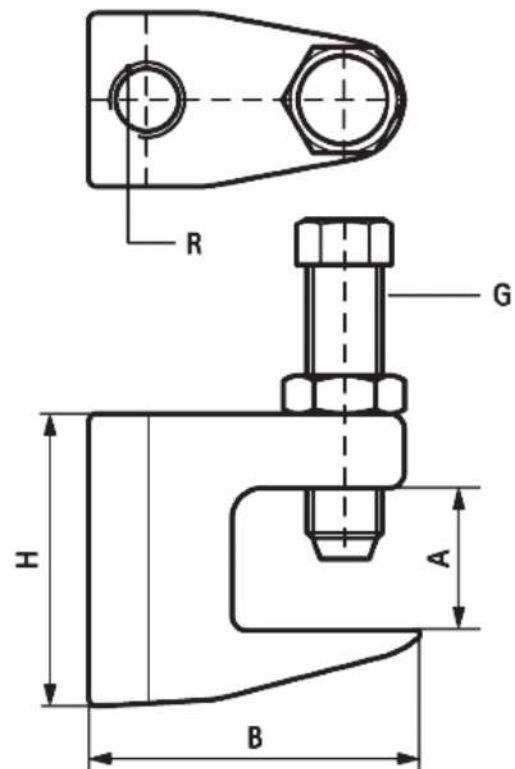
FINISH

Black or galvanized.

APPROVAL

Complies with Federal Specification A-A-1192A (Type 19 & 23) WW-H-171-E (Type 23) & MSS-SP-69 (Type 19 & 23).

Product Code	A mm	R	G	B mm	H mm
SF-BC M8	18	M8	M8	35	35
SF-BC M10	20	M10	M10	41	42
SF-BC M12	26	M12	M12	48	54



Offset Clamp

PURPOSE

Designed to be used in the clamping of pipe lines at a fixed distance away from the floor or wall.

MATERIALS

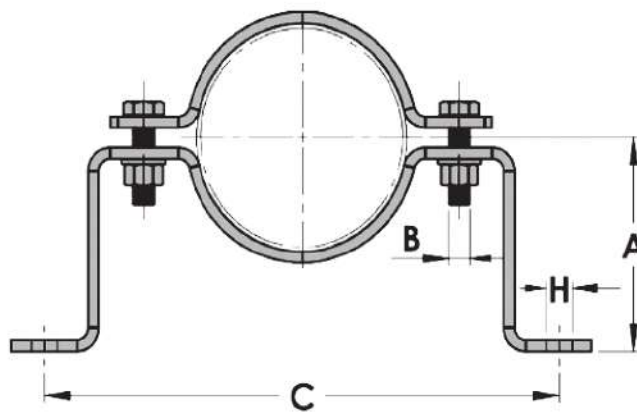
Carbon Steel

SIZE RANGE

½" to 12"

FINISH

Electro-Galvanization - Hot Dipped Galvanized



Size		A	B	C	H	Rec. Load KN
Inch	mm	mm	mm	mm	mm	
1/2"	(15)	62	M10	150	11	0.84
3/4"	(20)	63	M10	150	11	0.84
1"	(25)	66	M10	160	11	0.84
1 1/4"	(32)	69	M10	170	11	0.84
1 1/2"	(40)	76	M10	170	11	0.84
2"	(50)	81	M10	190	11	1.87
2 1/2"	(65)	87	M10	220	11	1.87
3"	(80)	95	M10	240	11	1.87
4"	(100)	108	M12	280	12	2.71
6"	(150)	135	M12	360	12	3.87
8"	(200)	160	M12	420	12	3.87
10"	(250)	190	M16	520	16	3.87
12"	(300)	215	M16	600	16	3.87

Note: 1 KN (mass) = 101.97 KG



Offset Hanger

APPLICATION

Recommended for suspension of cold pipe lines or hot lines where no insulation is required.

CONSTRUCTION

PIPE CLAMPS consists of two carbon steel flat bars bent to shape and held together by two bolts.

MATERIAL

Steel. Also, other materials can also be provided on request



APPROVALS

Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58 (Type 4)

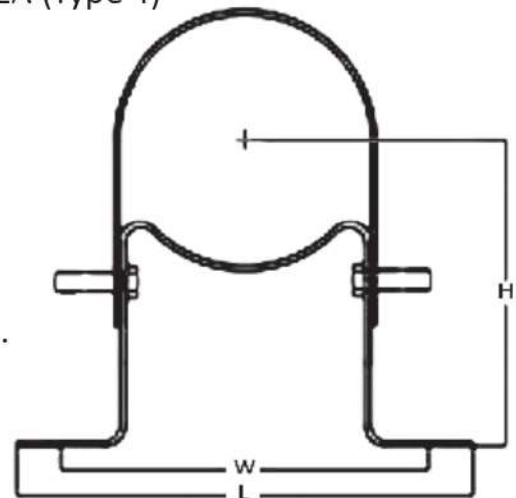
Federal Specification WW-H-171E & A-A-1192A (Type 4)

MAXIMUM TEMPERATURE

343°C

FINISH

Plain, Hot Dip Galvanized, Electro-Galvanized.



Pipe Size		Pipe OD (mm)	Dimension		
inch	mm		L	W	H
2 "	50	60.3	214	186	83
2 1/2 "	65	73	269	231	113
3"	80	88.9	284	246	113
4 "	100	114.3	311	271	113
5"	125	141.3	386	336	138
6"	150	168.3	411	361	138
8"	200	219.1	469	419	138



Two Bolt Pipe Clamp

PURPOSE

Recommended for suspension of cold pipe lines or hot lines where no insulation is required.

CONSTRUCTION

PIPE CLAMPS consists of two carbon steel flat bars bent to shape and held together by two bolts.

MATERIAL

Steel. Also, other materials can also be provided on request.

APPROVALS

Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58 (Type 4)

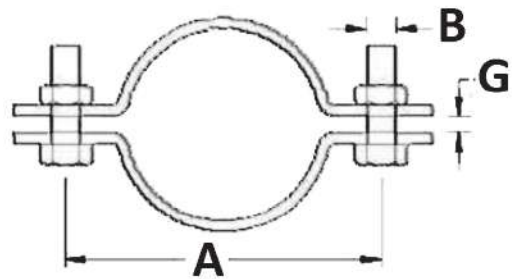
Federal Specification WW-H-171E & A-A-1192A (Type 4)

MAXIMUM TEMPERATURE

343°C

FINISH

Plain, Hot Dip Galvanized, Electro-Galvanized.



Pipe Size		Pipe OD (mm)	DIMENSIONS (mm)			MAX LOAD (kg)
Inch	mm		LENGTH A	BOLT SIZE B	GAP G	
1/2"	15	21.3	200	M10	12	170
3/4"	20	26.7	210	M10	12	170
1"	25	33.4	230	M10	12	170
1 1/4"	32	42.1	260	M10	12	170
1 1/2"	40	48.2	260	M10	12	170
2"	50	60.3	260	M10	16	170
2 1/2"	65	73.0	290	M12	16	400
3"	80	88.9	290	M12	16	400
4"	100	114.3	330	M12	19	400
6"	150	168.3	380	M16	22	600
8"	200	219.1	470	M16	25	1100
10"	250	273.0	520	M16	25	1200
12"	300	323.8	580	M20	25	1500
14"	350	355.6	610	M20	28	1500
16"	400	406.4	660	M20	28	2200
18"	450	457.2	710	M20	32	2200
20"	500	508.0	760	M20	35	2200
24"	600	609.6	880	M20	42	2200



Two Bolt Pipe Clamp With Lining

PURPOSE

Recommended for suspension of cold pipe lines or hot lines where no insulation is required.

CONSTRUCTION

Consists of two carbon steel flat bars bent to shape and held together by two bolts. Reduces noise up to 18 db.

MATERIAL

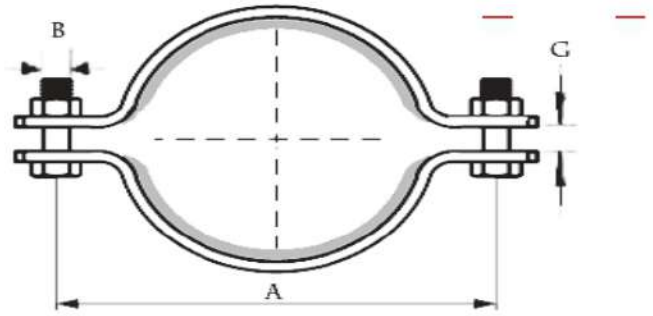
Steel. Also, other materials can also be provided on request

TEMPERATURE

110°C To -20°C

FINISH

Plain, Hot Dip Galvanized, Electro-Galvanized.



Pipe Size		Pipe OD (mm)	DIMENSIONS (mm)			MAX LOAD (KG)
In.	mm		LENGHT	BOLT Size	GAP G	
1/2"	15	21.3	200	M10	12	150
3/4"	20	26.7	210	M10	12	150
1"	25	33.4	230	M10	12	150
1 1/4"	32	42.1	260	M10	12	150
1 1/2"	40	48.2	260	M10	12	150
2"	50	60.3	260	M10	16	150
2 1/2"	65	73.0	290	M12	16	350
3"	80	88.9	290	M12	16	350
4"	100	114.3	330	M12	19	350
6"	150	168.3	380	M16	22	500
8"	200	219.1	470	M16	25	1000
10"	250	273.0	520	M16	25	1000
12"	300	323.8	580	M20	25	1200
14"	350	355.6	610	M20	28	1200
16"	400	406.4	660	M20	28	1800
18"	450	457.2	710	M20	32	1800
20"	500	508.0	760	M20	35	1800
24"	600	609.6	880	M20	42	1800



Three Bolt Pipe Clamp

PURPOSE

Designed for high static loading requirement in plant construction. Pipe clamps manufactured according to DIN 3567.

MATERIAL

Mild Steel. Also, other materials can be provided on Request.

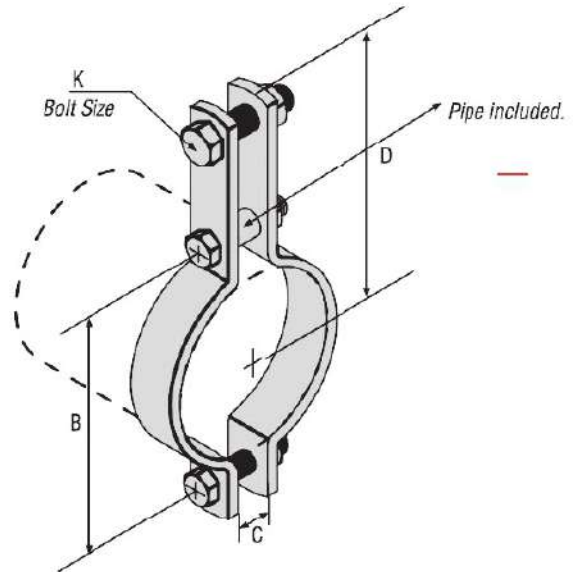
APPROVALS

ANSI/MSS SP-58 & SP-69 (Type 3)

Federal Specification WW-H-171E & A-A-1192A (Type 3)

FINISH AVAILABLE

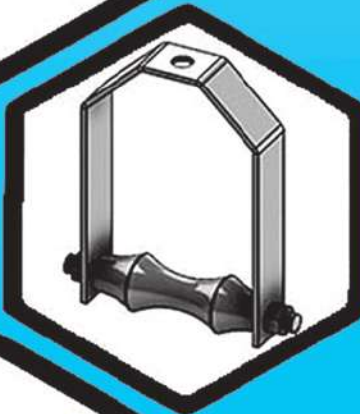
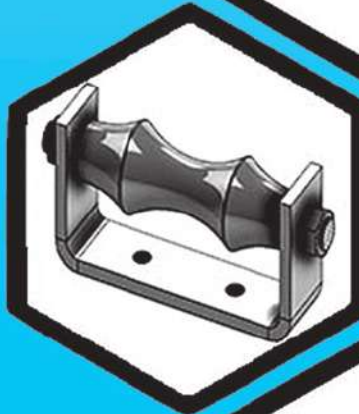
Electro-Galvanized, Hot dip Galvanized & Zinc Flake.



Pipe Size		DIMENSIONS (mm)				MAX LOAD (KN)
In.	mm	B mm	C mm	D mm	Bolt Size K mm	
1/2"	15	58	7	96	M10	3.29
3/4"	20	66	7	104	M10	3.29
1"	25	72	7	110	M10	3.29
1 1/4"	32	76	7	120	M12	3.29
1 1/2"	40	88	7	126	M12	5.34
2"	50	108	9	153	M12	5.34
2 1/2"	65	122	9	167	M12	5.34
3"	80	136	9	181	M16	5.34
4"	100	178	11	237	M16	8.67
6"	150	222	11	281	M20	9.96
8"	200	284	11	343	M20	9.96
10"	250	348	14	421	M20	11.25
12"	300	392	14	465	M24	11.25
14"	350	444	14	517	M24	14.94
16"	400	498	18	586	M24	14.94
18"	450	580	18	668	M24	14.94
20"	500	614	18	702	M27	15.65



Pipe Roller



PIPE ROLLER STAND

APPLICATION

Recommended to support pipe in applications where horizontal movement, due to expansion and contraction, will occur.

MATERIALS

Steel. Also, other materials can also be provided on request

APPROVALS

Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58 (Type 44)

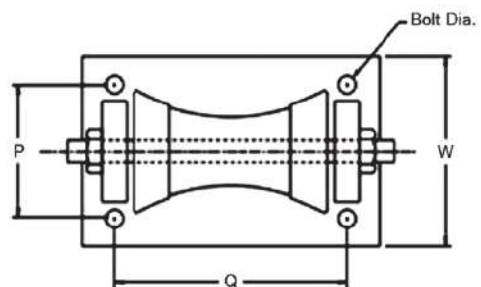
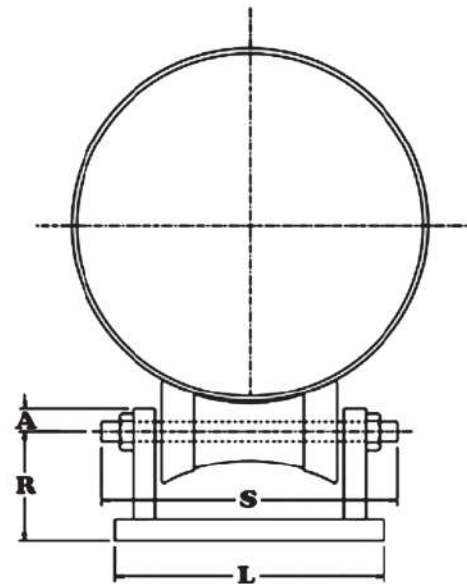
Federal Specification WW-H-171E & A-A-1192A (Type 45)

FINISH AVAILABLE

Plain, Hot Dip Galvanized, Electro-Galvanized.



Pipe Size		Pipe OD (mm)	S	Base Plate		R	Q	P
In.	mm			L	W			
2"	50	59	80	90	145	50	40	100
2 1/2"	65	75	90	100	145	50	48	100
3"	80	89	95	105	145	50	55	100
3 1/2"	90	102	100	110	145	50	61	100
4"	100	115	115	125	155	50	72	115
5"	125	141	130	140	155	55	85	115
6"	150	168	160	170	165	65	100	125
8"	200	219	190	200	170	75	125	130
10"	250	273	225	235	170	90	155	130
12"	300	323	260	270	170	90	180	130
14"	350	356	275	285	170	120	197	130
16"	400	406	300	310	205	120	220	165
18"	450	457	345	355	205	130	250	165
20"	500	508	370	380	205	130	275	165
24"	600	610	480	490	230	160	330	190
26"	650	661	500	510	245	180	355	200
28"	700	712	530	540	245	180	385	200
30"	750	755	550	560	245	200	405	200



PIPE ROLLER CHAIR

APPLICATION

Recommended for support of pipe where longitudinal movement due to expansion and contraction may occur, but where no vertical adjustment is required.

MATERIALS

Steel. Also, other materials can also be provided on request.

APPROVALS

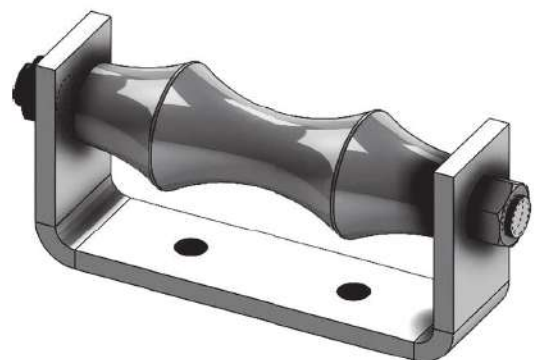
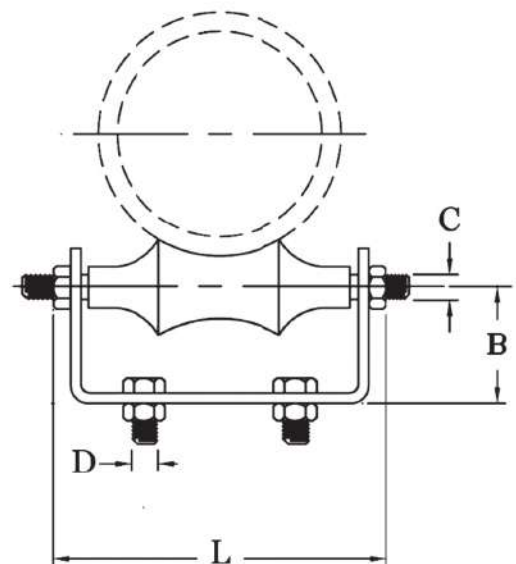
Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58 (Type 44)

Federal Specification WW-H-171E & A-A-1192A (Type 45)

FINISH AVAILABLE

Plain, Hot Dip Galvanized, Electro-Galvanized.

Pipe Size In.	Pipe OD (mm)	Dimensions			
		B	C	D	L
2"	59	40	M12	M12	115
2 1/2"	75	40	M12	M12	125
3"	89	45	M12	M12	145
3 1/2"	102	45	M12	M12	160
4"	115	55	M12	M16	175
5"	141	55	M12	M16	200
6"	168	65	M20	M16	245
8"	219	75	M24	M20	305
10"	273	90	M24	M20	365
12"	323	90	M24	M20	425
14"	356	120	M24	M24	460
16"	406	120	M24	M24	515
18"	457	130	M33	M24	580
20"	508	130	M33	M24	630
24"	610	160	M50	M24	780
26"	661	180	M50	M24	845
28"	712	180	M50	M24	895
30"	755	200	M50	M24	940



ADJUSTABLE ROLLER HANGER

APPLICATION

Recommended for suspended pipes in applications where horizontal movement, due to expansion and contraction, will occur and vertical adjustment is necessary.

MATERIALS

Steel. Also, other materials can also be provided on request

APPROVALS

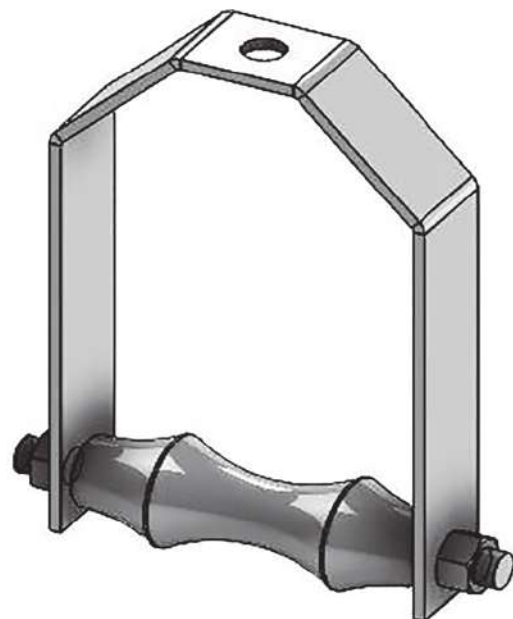
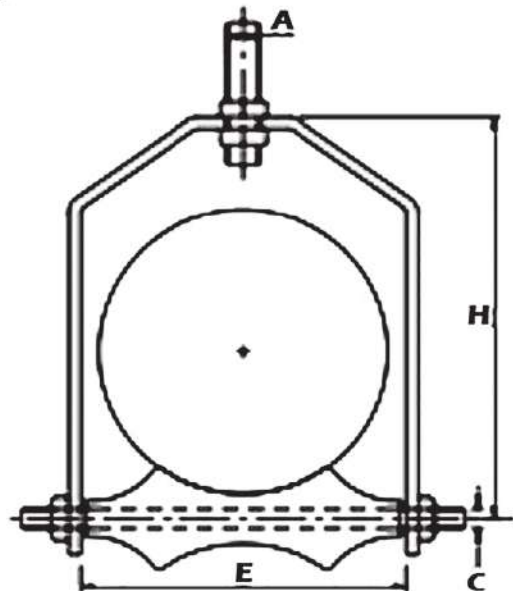
Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58 (Type 43)

Federal Specification WW-H-171E & A-A-1192A (Type 43)

FINISH AVAILABLE

Plain, Hot Dip Galvanized, Electro-Galvanized.

Pipe Size In.	Pipe OD (mm)	Dimensions (mm)			
		A	C	E	H
2"	59	M12	M12 x 115	70	105
2 1/2"	75	M12	M12 x 125	83	125
3"	89	M12	M12 x 145	99	140
3 1/2"	102	M16	M12 x 160	112	155
4"	115	M16	M12 x 175	125	170
5"	141	M20	M12 x 200	152	200
6"	168	M20	M20 x 245	179	230
8"	219	M20	M24 x 305	231	290
10"	273	M24	M24 x 365	285	350
12"	323	M24	M24 x 425	336	400
14"	356	M24	M24 x 460	368	445
16"	406	M24	M24 x 515	419	500
18"	457	M30	M33 x 580	470	555
20"	508	M30	M33 x 630	520	610
24"	610	M30	M50 x 780	626	725
26"	661	M36	M50 x 845	679	785
28"	712	M36	M50 x 895	732	840
30"	755	M36	M50 x 940	778	885



PIPE ROLLER

APPLICATION

Recommended for supporting pipe in applications where horizontal movement, due to expansion and contraction, will occur.

MATERIALS

Steel. Also, other materials can also be provided on request

APPROVALS

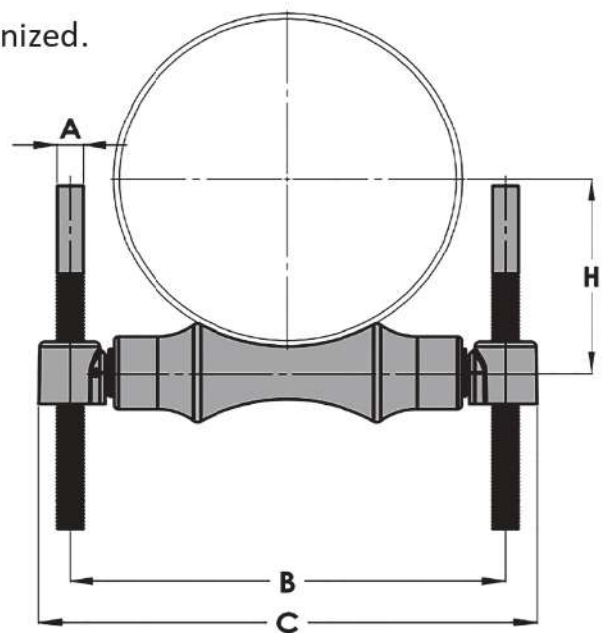
Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58 (Type 41)

Federal Specification WW-H-171E & A-A-1192A (Type 42)

FINISH AVAILABLE

Plain, Hot Dip Galvanized, Electro-Galvanized.

Size		A	B	C	H
Inch	mm	mm	mm	mm	mm
1"	(25)	M10	75,0	95,0	26,5
1 1/4"	(32)	M10	85,0	105,0	30,5
1 1/2"	(40)	M10	90,0	110,0	33,5
2"	(50)	M10	102,0	122,0	38,5
2 1/2"	(65)	M12	124,0	154,0	49,0
3"	(80)	M12	140,0	170,0	55,5
3 1/2"	(90)	M12	156,0	186,0	63,5
4"	(100)	M16	175,0	215,0	69,5
5"	(125)	M16	205,0	254,0	84,5
6"	(150)	M20	245,0	303,0	100,0
8"	(200)	M24	300,0	358,0	129,5
10"	(250)	M24	356,0	414,0	159,0
12"	(300)	M24	402,0	460,0	187,5
14"	(350)	M24	458,0	540,0	209,0
16"	(400)	M30	508,0	590,0	234,5
18"	(450)	M30	559,0	641,0	263,0
20"	(500)	M30	610,0	692,0	291,5
24"	(600)	M39	735,0	825,0	350,0
30"	(750)	M39	900,0	990,0	438,5



PIPE INSULATION SADDLE

APPLICATION

Designed for use on insulated high temperature systems where heat losses are to be kept to a minimum and to protect insulation against damage.

MATERIALS

Steel. Also, other materials can also be provided on request.

APPROVALS

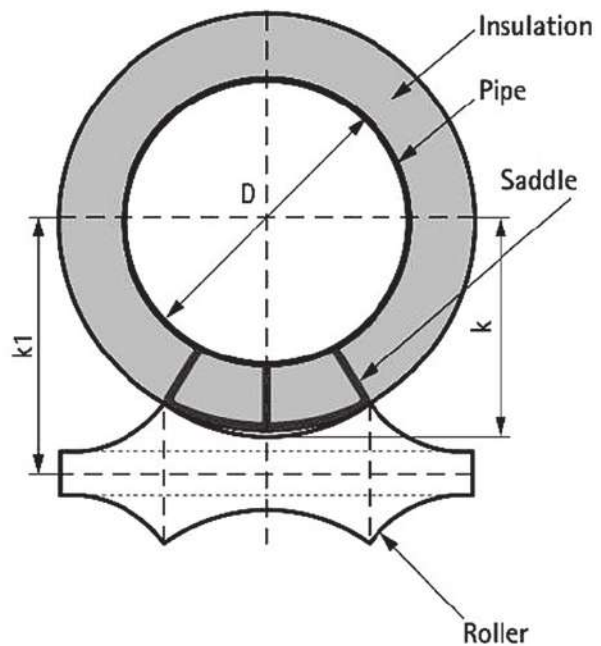
Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58 (Type 39)

Federal Specification WW-H-171E & A-A-1192A (Type 40A & 40B)

FINISH AVAILABLE

Plain, Hot Dip Galvanized, Electro-Galvanized.

Pipe Size	Insulation Thickness (mm)	D (mm)	K (mm)	k1 (mm)
1	25	33.4	47	62
1	50	33.4	73	62
1¼	25	42.0	50	64
1¼	50	42.0	76	70
1½	25	48.0	54	72
1½	50	48.0	80	102
2	25	60.0	60	80
2	50	60.0	86	111
2	75	60.0	111	141
2½	25	73.0	68	90
2½	50	73.0	98	126
2½	75	73.0	119	149
3	25	90.0	77	99
3	50	90.0	103	131
3	75	90.0	128	164
4	25	115.0	89	114
4	50	115.0	115	145
4	75	115.0	140	176
6	25	168.0	116	146
6	50	168.0	142	178
6	75	168.0	167	209



SUPPORT CHANNELS

MATERIALS

Steel. Also, other materials can also be provided on request.

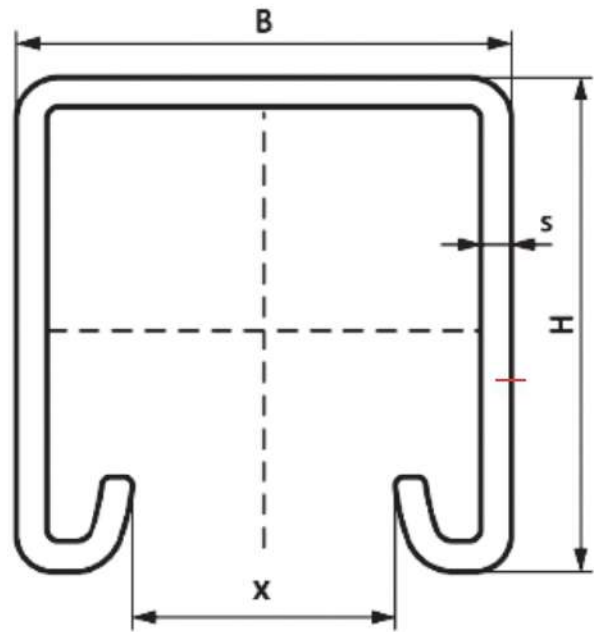
FINISH AVAILABLE

Plain, Hot Dip Galvanized, Electrogalvanized.

SIZES

4 cm X 2 cm

4 cm X 4 cm



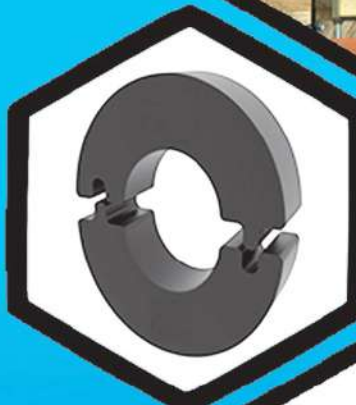
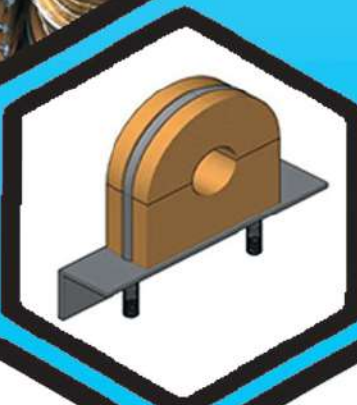
B x H x S mm	B mm	H mm	s mm	X mm	L
41x21x1.5	41	21	1.5	22	3 m
41x41x1.5	41	41	1.5	22	3 m
41x21x2.0	41	21	2.0	22	3 m
41x41x2.0	41	41	2.0	22	3 m
41x21x2.5	41	21	2.5	22	3 m
41x41x2.5	41	41	2.5	22	3 m



Notes

A series of horizontal dotted lines for writing notes, spanning the width of the page.

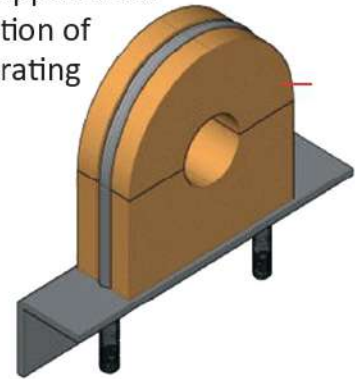
Wood & Rubber Support



Wood Support

PURPOSE

Prevents the crush of insulation of insulated pipes at the point of support have superior compression properties and excellent natural resistance to rot, decay, and termites. The main functions of a pipe support are to anchor, guide, absorb shock, and support a specified load Pipe supports used in high or low temperature applications may contain insulation materials. The overall design configuration of a pipe support assembly is dependent on the loading and operating conditions. It's considered the safest, most efficient and most effective way to control movement at the hanger locations in a dynamic piping system



FEATURES

- Made of Fire Retardant Chemically Treated Wood
- Excellent Surface Finishing
- High Dimensional Accuracy
- High Compressive Resistance
- Light weight, Compact Size
- Very High Hardness
- Withstand Heavy Shocks & Impacts
- Provide Thermal Insulation & Fire Retardant
- Provide Vibration Absorption & System Flexibility.
- Moisture Resistance & Waterproof
- Resistant to Oxidation & Corrosion
- Doesn't Encourage Fungi Growth
- Fast & Easy Assembly & Disassembly
- High Durability, Reliability & Long Life
- High Quality & Low Use Cost
- Slow combustibility characteristics
- Protect the pipe's insulation at the point of support
- Good insulation material
- Can be customized according to insulation thickness



APPLICATIONS

- Carry the load & allow necessary movement at each support point
- Minimize the cost of field installation by reducing installation time

STANDARDS COMPLIANCE

DIN 4102, UNE 23-727-90, AFNOR NF 92-501, Bs 476, part 5-8

MATERIALS

Wood

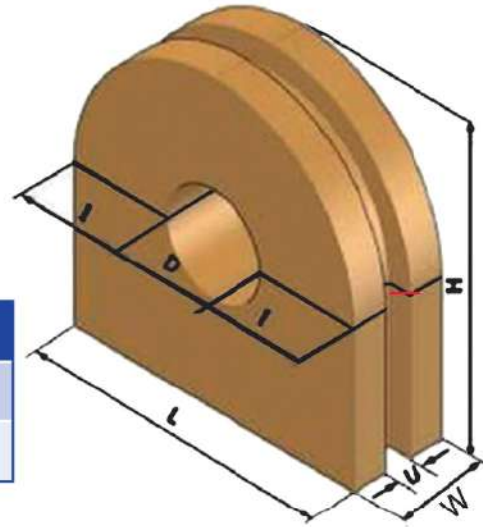
FINISH AVAILABLE

- Painted
- Treated by a fire-retardant chemical coating



FIRE PERFORMANCE

Wood is treated by a fire-retardant chemical coating It reduces the rate in which fire spread across the wood surface and reducing the rate of heat spread and release across the support body. It decreases the combustibility characteristics of wood leading to low rate of material combustion and burning In addition to: servicing a wide range of Use Temperature Key Features



Fire Classification	ASTM E 84 Type III
Combustibility	Low Combustion Rate
Flammability	Non- Flammable

NOTE

The dimension "I" have different values according to the insulation thickness used Four ranges (A, B, C, D) are available, each range contain specific values for I

Range A 12.5, 20,25,30,40,50

Range B 12.5, 20,25, 30,40, 50,65, 75

Range C 12.5, 20,25, 30,40, 50,65, 75, 100

Range D 25, 30, 40, 50, 65, 75, 100

The dimensions H & L are specified according to I

Pipe size		Pipe OD	D	W	U	I
Inch	mm					
1/2	15	21.3	23	40	12	A
3/4	20	26.7	29	40	12	A
1	25	33.4	35	40	12	A
1 1/4	32	42.1	43	40	12	A
1 1/2	40	48.2	50	40	12	A
2	50	54	54	40	12	B
2 1/2	65	73	75	50	14	C
3	75	88.9	90	50	14	C
3 1/2	90	101.6	105	50	14	C
4	100	114.3	116	50	14	C
5	125	141.3	142	50	14	D
6	150	175	175	50	14	D
8	200	219.1	220	50	14	D
10	250	273.1	275	60	18	D
12	300	223.9	325	60	18	D
14	350	355.6	358	60	18	D



Rubber Support

PURPOSE

Is an environment Friendly innovative product inherent from the high Pressure foamed material with special Features of high load bearing property good thermal conductivity. Negligible water absorption. Shock and vibration proof. Nontoxic and corrosion resistance

FEATURES

Rubber supports are a new selection for the industry as their unique features and outstanding performance

Environment Friendly

Replace wood pipe support and material can be recycling protect the environment

Thermal Conductivity

Conforms to national standard Gb4242-92 "gb8175-87

Water Resistance

Negligible water absorption due to closed cell structure

Shock & Vibration Proof

Inherent high pressure foamed absorb most shock and vibration

Corrosion Resistance

High pressure foamed high density resists most Chemicals acids and bases

Fire Performance

Tested and Conformed to British Standard BS 476-class 1 Fire Resistance



CONSTRUCTION

Dimensionally accurate as each piece is molded. It has excellent resistance to distortion. Steel reinforcement gives higher strength and load bearing capacity

MATERIAL

DENSITY: 1400kg/m³

THERMAL CONDUCTIVITY

0.16W/m°C

MAXIMUM TEMPERATURE

110°C

MINIMUM TEMPERATURE

-20°C



Applications

HVAC systems

Fire protection systems

Commercial constructions

Marine and ship building

Air Conditioning

Power generation

Petroleum refining

Natural gas compressor stations



Rubber Support - Data Sheet

Din	Inch	Specification			Bolt Diameter	Bolt Length	Distance	Loading Weight
		Diameter	thickness	width				
DN20	3/4	28	25	25	8	40	2.0	65.7
DN25	1"	34	25	25	8	40	2.0	79
DN32	1-1/4"	43	25	25	8	40	2.5	96
DN40	1-1/2"	48	25	25	8	40	3.0	108
DN50	2"	60	25	25	8	40	3.0	133
DN65	2-1/2"	76	30	30	8	40	4.0	164
DN80	3"	89	30	30	8	50	4.0	189
DN100	4"	114	30	30	10	50	4.5	243
DN120	4-1/4"	133	40	40	10	50	5.0	335
DN125	5"	140	40	45	10	50	5.0	351
DN140	5-1/2"	159	40	40	12	50	5.0	398
DN150	6"	165	40	45	12	50	5.0	414
DN200	8"	219	50	45	12	50	5.0	718.8
DN250	10"	273	50	45	12	50	5.0	891
DN300	12"	325	50	50	12	60	5.0	1188
DN350	14"	377	50	50	12	60	4.0	1375.5
DN400	16"	426	50	50	12	60	4.0	1553.8
DN450	18"	480	50	50	12	60	4.0	1880
DN500	20"	530	50	50	12	80	4.0	2140
DN600	24"	630	50	50	12	80	4.0	2540
DN700	28"	720	60	50	14	100	3.0	2900
DN800	32"	800	70	50	14	100	3.0	3310
DN900	36"	920	80	50	16	120	3.0	3720
DN1000	40"	1020	100	50	16	120	3.0	4110



Rubber Inserts - RSI

PURPOSE

Recommended to use at the supporting points of insulated pipes to prevent crushing of insulation.

CONSTRUCTION

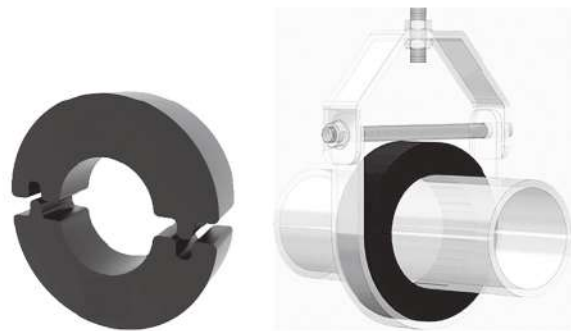
Dimensionally accurate as each piece is molded. It has excellent resistance to deterioration / distortion. Steel reinforcement gives higher strength and load bearing capacity.

FEATURES

- Environment Friendly
- Water Resistance
- Shock & Vibration Proof
- Corrosion Resistance

MATERIALS

- DENSITY : 1400 kg / m³
- THERMAL CONDUCTIVITY : 0.16W / m²°C



TEMPERATURE Range

-20°C to 110°C

Din	Inch	Specification		
		Diameter	thickness	width
20	3/4	28	25	25
25	1"	34	25	25
32	1-1/4"	43	25	25
40	1-1/2"	48	25	25
50	2"	60	25	25
65	2-1/2"	76	30	30
80	3"	89	30	30
100	4"	114	30	30
120	4-1/4"	133	40	40
125	5"	140	40	45
140	5-1/2"	159	40	40
150	6"	165	40	45
200	8"	219	50	45
250	10"	273	50	45
300	12"	325	50	50



Anti Vibration



Anti Vibration Pads

SPECIFICATIONS

Alternate High/ Low Ribbed Construction

Easy to Cut

Pads can be cut slightly larger than the size of leg of machines using shear or knife

Easy Field Installation

Multiple layers of Ribbed Mounting Pad can be used to increase deflection

Provides the highest level of sound attenuation and vibration isolation

MATERIALS

Rubber

AVAILABLE DIMENSIONS

2cm X 35cm X 45cm



NOTE

- Measurements are subject to a 5% tolerance
- To achieve good muffling, do not over-mount loads



Anti Vibration Mounts

CHARACTERISTICS

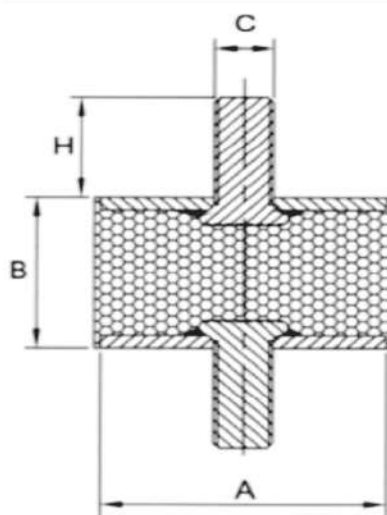
Wide Application

Our Rubber Motor Mounts are mainly used for air compressors, diesel engines, gasoline engines, water pumps. Electron components, medical equipment, home appliance, mechanical equipment, office facilities, aviation, construction, automobile and may more applications.



Anti-vibration & Noiseless

As a damping element for welding machine and other equipment, this boltable rubber body mounts provides excellent performance for vibration, shock and noise control, greatly helping protect the body's normal work and get good surroundings.



Dynamic & Stable

Simple geometrical designed radiator mount bushing bolt supports dynamic performance and high stability under lateral (sideways) forces. In the radio equipment, instruments, protect machine vibration interference, having a good buffer.

CYLINDRICAL MOUNTS-MALE MALE TYPE VV SERIES

The demension range is available in various sizes between 8 – 150mm, suitable for use on any application in need of vibration isolation where a Male / Male thread is required. They are available in natural rubber as standard but other compounds are available on request.

Stainless steel metal parts are also available on request for substantial volume orders.

ITEM	A	B	Screw		Load/kg		Maximum Compression mm	
			C	H	40Sh	60Sh		
VV50*25	50	25	M10	M12	23\27\32	30	56	2
VV50*30	50	30	M10	M12	23\27\32	38	70	2.5
VV50*35	50	35	M10	M12	23\27\32	38	70	2.5
VV50*40	50	40	M10	M12	23\27\32	45	85	3
VV50*45	50	45	M10	M12	23\27\32	45	85	3
VV50*50	50	50	M10	M12	23\27\32	45	85	3



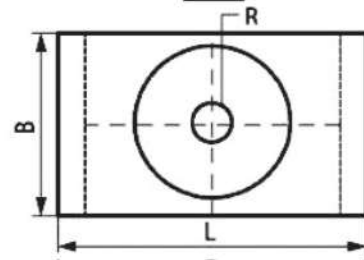
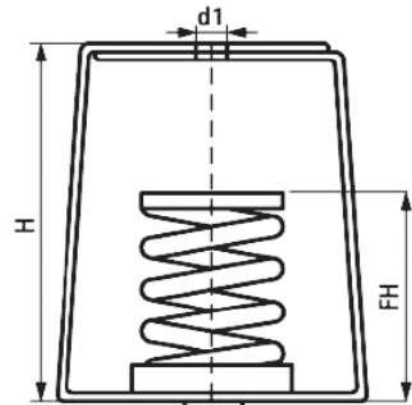
Spring Hanger

Features

Spring Vibration isolation hangers are designed to provide high efficiency isolation from structure-borne vibration and noise. Spring Hangers consist of freestanding; laterally stable steel springs in series with a moulded elastomeric element assemble into a stamped and welded hanger bracket. The hanger brackets and the springs are powder coated. Springs are colour-coded according to load ratings and are designed for 50% overload. Spring Hangers are designed to meet BS1726, class B.

Applications

Hangers are used to isolate suspended sources of both noise and vibration. Suspended mechanical equipment such as air handling units, FCU's cabinet fans, piping and ductwork in close proximity to rotating mechanical equipment are typical applications of model hangers.



Product Code	R	L (mm)	B (mm)	H (mm)	d1 (mm)	FH (mm)	Deflection (mm)	Rec. Load (KG)
SFSH-25/10	M10	60	52	104	10.5	80	25	10
SFSH-25/15	M10	60	52	104	10.5	80	25	15
SFSH-25/20	M10	60	52	104	10.5	80	25	20
SFSH-25/30	M10	60	52	104	10.5	80	25	30
SFSH-25/40	M10	60	52	104	10.5	80	25	40
SFSH-25/60	M12	87	65	138	12.5	96	25	60
SFSH-25/100	M12	87	65	138	12.5	96	25	100
SFSH-25/160	M12	87	65	138	12.5	96	25	160
SFSH-25/200	M12	87	65	138	12.5	96	25	200
SFSH-25/250	M12	87	65	138	12.5	96	25	250
SFSH-25/300	M16	100	85	157	16.5	115	25	300
SFSH-25/400	M16	100	85	157	16.5	115	25	400
SFSH-25/500	M16	100	85	157	16.5	115	25	500
SFSH-25/600	M16	100	85	157	16.5	115	25	600
SFSH-25/800	M16	100	85	157	16.5	115	25	800
SFSH-25/1050	M16	100	85	157	16.5	115	25	1050
SFSH-25/1250	M16	100	85	157	16.5	115	25	1250



Wedge Anchor

BASE MATERIAL

Cracked and non-Cracked Concrete.



Assessment under process

FEATURES

- Torque controlled expansion anchor with washer and hexagonal nut.
- Zinc electroplated Steel (7-10 μm)
- suitable for (Lift guide rails; industrial doors and gates, Storage systems).
- Secure hold and easy installation.
- Impact protection for the thread.
- Immediately load-bearing.

APPLICATIONS

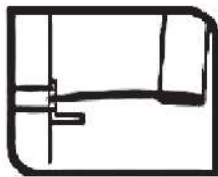
Metal structures, metal profiles, brackets, foot plates, supports, cable conduits, piping, railings, wooden structures, beams.



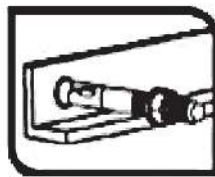
INSTALLATION PROCESS



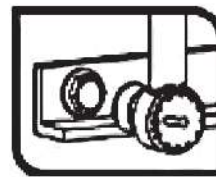
Drill hole



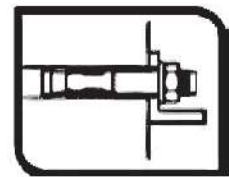
Clean hole



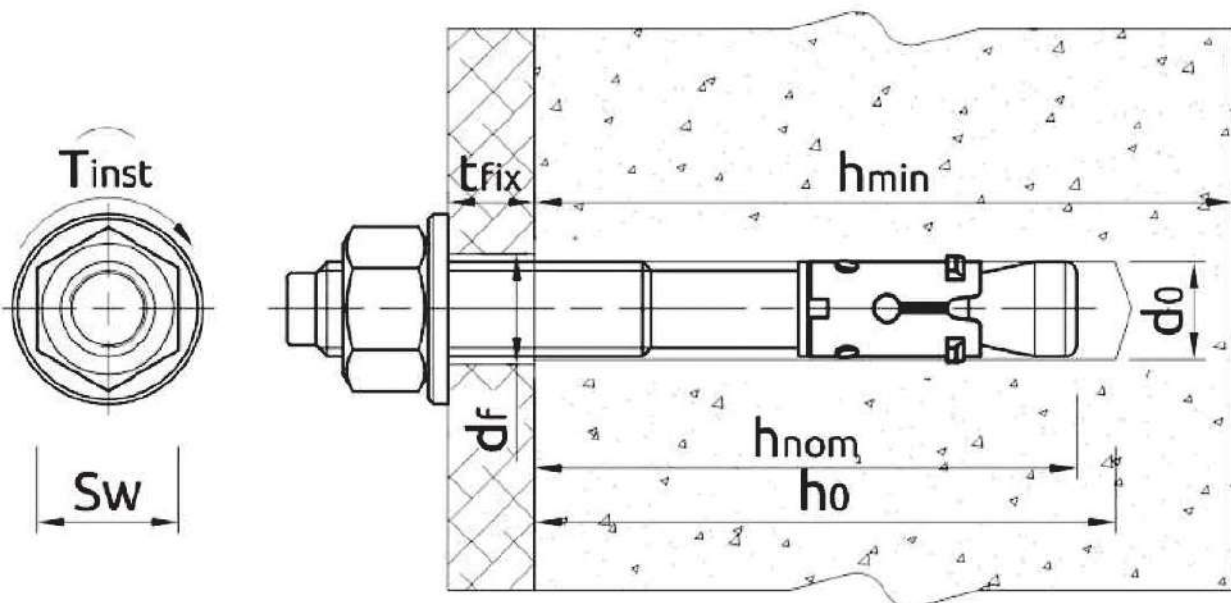
Insert anchor



Apply torque



Anchor fixed



TECHNICAL DATA

Description	Letter Marking	Length (mm) L	Drilling depth (mm) h _o	Min. Anchorage Depth (mm) h _{nom}	Max. fixture Thickness (mm) t _{fx}	Drilling diameter (mm) d _o	Clearance Diameter (mm) df	Tightening torque (N/m) T _{inst}
M8x80/20	S	80	60	46	20	8	10	20
M8x90/30	E	90	60	46	30	8	10	20
M8x120/60	N	120	60	46	60	8	10	20
M10x100/20	M	100	75	60	20	10	12	45
M10x120/40	K	120	75	60	40	10	12	45
M10x140/60	W	140	75	60	60	10	12	45
M10x160/80	H	160	75	60	80	10	12	45
M12x100/10	F	100	90	70	10	12	14	60
M12x110/15	M	110	90	70	15	12	14	60
M12x125/30	K	125	90	70	30	12	14	60
M12x140/45	W	140	90	70	45	12	14	60
M12x160/65	H	160	90	70	65	12	14	60
M12x180/85	L	180	90	70	85	12	14	60
M16x150/30	W	150	110	85	30	16	18	110
M16x170/50	H	170	110	85	50	16	18	110
M16x200/80	L	200	110	85	80	16	18	110
M20x170/30	K	170	130	100	30	20	22	160
M20x200/60	E	200	130	100	60	20	22	160



ANCHOR MECHANICAL PROPERTIES

Anchor size		M8	M10	M12	M16	M20
Cross section above cone						
fuk(N/mm²)	Min. tensile strength	900	830	830	830	1040
fyk (N/mm²)	Yield strength	800	670	670	670	940
As (mm²)	Stressed cross-section	22.9	35.3	45.4	88.2	165.1
Threaded part						
fuk(N/mm²)	Min. tensile strength	750	640	730	730	830
fyk (N/mm²)	Yield strength	680	515	580	680	670
As (mm²)	Stressed cross-section	36.6	58	84.3	156	245
Wel (mm³)	Elastic section modulus	31.23	62.3	109.17	277.47	540.9
M⁰rk,s (Nm)	Characteristic bending moment	28	52.8	91.3	194.0	315.7
M (Nm)	Recommended bending moment	8.7	14.7	25.8	54.4	90.5

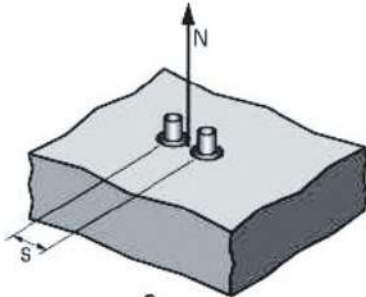
DESIGN LOADS (NRD, VRD) FOR SINGLE ANCHOR WITHOUT EDGE OR SPACING INFLUENCE IN KN

Anchor size	M8	M10	M12	M16	M20
h_{ef}	46	60	70	85	100
Tensile loads					
Non-Cracked concrete (C20/25)					
Nrd	5.5	12.7	17.9	24.2	27.0
Cracked concrete (C20/25)					
Nrd	4.05	8.3	12.4	17.1	31.3
Shear Loads					
Cracked & non-cracked concrete (C20/25)					
Vrd	10.7	11.9	15.2	33.6	47.5

$\gamma_{Mc} = 1,5$ for Tensile loads, $\gamma_{Ms} = 1,25$ for M8 to M16 and $\gamma_{Ms} = 1,5$ for M20 for Shear Loads.



Ψ_s INFLUENCE OF SPACING FOR CONCRETE CONE RESISTANCE IN TENSILE LOAD



$$\Psi_s = 0,5 + \frac{S}{6 \cdot h_{ef}}$$

$$S_{min} < S < S_{cr,N}$$

$$S_{cr,N} = 3 \cdot h_{ef}$$

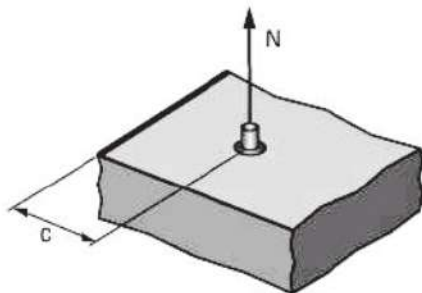
Ψ_s must be used for each spacing influenced the anchors group

SPACING S

Reduction factor Ψ_s
Minimum anchorage depth

Anchor size	M8	M10	M12	M16	M20
55	0,70	0,65			
60	0,72	0,67	0,64		—
75	0,77	0,71	0,68		
90	0,83	0,75	0,71	0,68	
110	0,90	0,81	0,76	0,72	
130	0,97	0,86	0,81	0,75	0,72
140	1,00	0,89	0,83	0,77	0,73
180		1,00	0,93	0,85	0,80
210			1,00	0,91	0,85
255				1,00	0,93
300					1,00

$\Psi_{c,N}$ INFLUENCE OF EDGE FOR CONCRETE CONE RESISTANCE IN TENSILE LOAD



$$\Psi_{c,N} = 0,26 + 0,49 \cdot \frac{C}{h_{ef}}$$

$$C_{min} < C < C_{cr,N}$$

$$C_{cr,N} = 1,5 \cdot h_{ef}$$

$\Psi_{c,N}$ must be used for each distance influenced the anchors group.

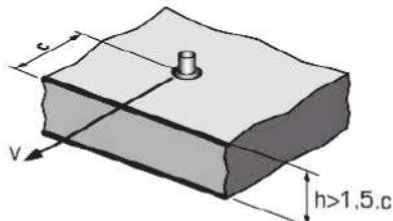
EDGE C

Reduction factor $\Psi_{c,N}$
Minimum anchorage depth

Anchor size	M8	M10	M12	M16	M20
50	0,79				
55	0,85	0,71			
60	0,90	0,75	0,68		
70	1,00	0,83	0,75		
80		0,91	0,82	0,72	
90		1,00	0,89	0,78	
100			0,96	0,84	0,75
105			1,00	0,87	0,77
130				1,00	0,90
150					1,00



$\Psi_{s-c, V}$ INFLUENCE OF SPACING AND EDGE DISTANCE FOR CONCRETE EDGE RESISTANCE IN SHEAR LOAD

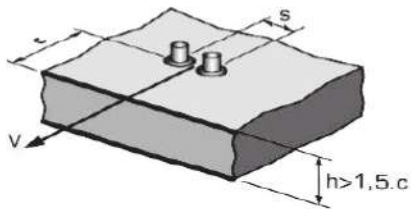


- For single anchor fastening

$$\Psi_{s-c, V} = \frac{c}{c_{min}} \cdot \sqrt{\frac{c}{c_{min}}}$$

Reduction factor $\Psi_{s-c, V}$
Cracked & non-cracked concrete

$\frac{c}{c_{min}}$	1,0	1,2	1,4	1,6	1,8	2,0	2,2	2,4	2,6	2,6	2,8	3,0	3,2
$\Psi_{s-c, V}$	1,00	1,31	1,66	2,02	2,41	2,83	3,26	3,72		4,19	4,69	5,20	5,72

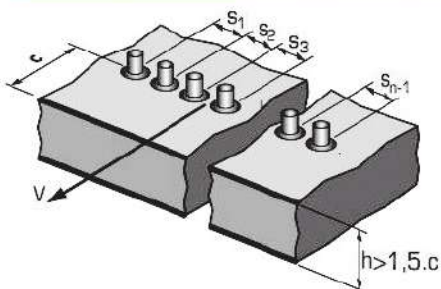


- For 2 anchors fastening

$$\Psi_{s-c, V} = \frac{3 \cdot c + s}{6 \cdot c_{min}} \cdot \sqrt{\frac{c}{c_{min}}}$$

Reduction factor $\Psi_{s-c, V}$
Cracked & non-cracked concrete

$\frac{s}{c_{min}}$	$\frac{c}{c_{min}}$	1,0	1,2	1,4	1,6	1,8	2,0	2,2	2,4	2,6	2,8	3,0	3,2
		1,0	0,67	0,84	1,03	1,22	1,43	1,65	1,88	2,12	2,36	2,62	2,89
1,5	0,75	0,93	1,12	1,33	1,54	1,77	2,00	2,25	2,50	2,76	3,03	3,31	
2,0	0,83	1,02	1,22	1,43	1,65	1,89	2,12	2,38	2,63	2,90	3,18	3,46	
2,5	0,92	1,11	1,32	1,54	1,77	2,00	2,25	2,50	2,77	3,04	3,32	3,61	
3,0	1,00	1,20	1,42	1,64	1,88	2,12	2,37	2,63	2,90	3,18	3,46	3,76	
3,5		1,30	1,52	1,75	1,99	2,24	2,50	2,76	3,04	3,32	3,61	3,91	
4,0			1,62	1,86	2,10	2,36	2,62	2,89	3,17	3,46	3,75	4,05	
4,5				1,96	2,21	2,47	2,74	3,02	3,31	3,60	3,90	4,20	
5,0					2,33	2,59	2,87	3,15	3,44	3,74	4,04	4,35	
5,5						2,71	2,99	3,28	3,71	4,02	4,33	4,65	
6,0							2,83	3,11	3,41	3,71	4,02	4,33	4,65



- For 3 anchors fastening and more

$$\Psi_{s-c, V} = \frac{3 \cdot c + s_1 + s_2 + s_3 + \dots + s_{n-1}}{3 \cdot n \cdot c_{min}} \cdot \sqrt{\frac{c}{c_{min}}}$$



Drop in Anchor

BASE MATERIAL

Non-Cracked Concrete.

Cracked concrete with multiple attachments.



Assessment under process

FEATURES

Displacement controlled expansion anchor with internally threaded.

Galvanized steel suitable for indoor/dry conditions.

Secure hold and fast installation. Immediately load-bearing.

APPLICATIONS

Mechanical Electrical Plumbing applications, clamping, pipe supports, cable conduits, railings.

Recommended loads (N_{Rec} , V_{Rec}) for single anchor without edge or spacing influence in KN

Anchor size	M6	M8	M10	M12	M16	M20
h_{ef}	30	30	40	50	65	80
Perm. Centr. Tensile load						
(Non-cracked concrete (C20/25), $S \geq 3 h_{ef}$, $c \geq 1.5 h_{ef}$)						
NRD	2.9	2.5	4.5	6.3	9.4	12.87
Shear Loads						
(Non-cracked concrete (C20/25), $c \geq 10 h_{ef}$)						
VRD	1.8	3.5	3.7	8.1	15.1	23.5

The part safety coefficients of the resistances regulated in the approval and a part safety coefficient of the effects of

$\gamma_F = 1.4$ have been taken into account.

For the combination of tensile and transverse loads, for edge influence and anchor groups

ANCHOR MECHANICAL PROPERTIES

Anchor size	M6	M8	M10	M12	M16	M20	
Materials:							
Cone and sleeve	Carbon steel, zinc plated $> 5 \mu\text{m}$ ISO 4042 Zn5/An/T0						
$M_{rk,s}^0$ (Nm)	Characteristic bending moment	6.1	15	29.9	52.4	133.3	259

INSTALLATION PROCESS



Drill hole

Clean hole

Insert anchor until flush

Fix by setting tool

Anchor rim sets on setting tool shoulder

Apply Torque



Shield Anchor

PURPOSE

Shield anchors are very heavy-duty fixings, these are often used in industry and can be used in concrete, brick or stone. There are two different types- one which has a nut and the other a bolt. It is of vital importance to drill the correct size hole as if it is too big the whole anchor will spin in the hole and it will not work! These are used to fasten objects to the floor in most cases but can be used on walls and concrete ceilings etc.

The Nut type is preferred as if the anchor spins in the hole you can grip the stud above the nut and hold it until the anchor has spread sufficiently to grip the hole

How to Install

Firstly, drill a hole to the correct size, this is important as if your hole is too big then the anchors will not grip the substrate material and they will not work

When drilling the hole with a hammer drill you can remove debris from the hole by removing the drill while it is still spinning, the drill bit picks up pieces of debris and deposits them outside of the hole

Push the shield anchor through the item that you are fastening and then tighten the nut or bolt, as the nut or bolt tightens it spreads the anchor and so it grips the sides of the hole



CODE	DRILL	Min. Hole Depth	Min. Anchor Depth	Shear Load Non-cracked Concrete	Tension Load Non-cracked Concrete
SFA06	10	55	40	143	351
SF0A8	14	70	50	163	640
SFA10	16	80	60	510	1014
SFA12	20	90	80	602	1473
SFA16	25	115	100	837	2744



Hex Bolt DIN-933

MATERIALS

Mild Steel, Carbon Steel, Alloy Steel & Stainless Steel

SIZE RANGE

- M6 to M52 in metric series
- Bigger sizes can be manufactured as per order

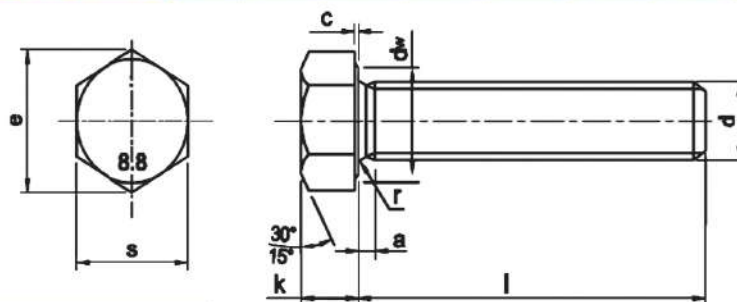
ORDERING INFORMATION

- Dimensions -- Size Diameter and Length
- Finish -- Black, Zinc Plated, Hot Dip Galvanized



d: SIZES		M6	M8	M10	M12	M14	M16	M18	M20	M22
S: distance between faces	mm	10	13	17	19	22	24	27	30	32
K: Head thickness	mm	5	6,5	8	10	11	13	15	16	18
e: distance between apexes	mm	11,1	14,4	18,9	21,1	24,5	26,8	29,6	32,9	35,0

d: SIZES		M24	M27	M30	M33	M36	M39	M42	M45	M52
S: distance between faces	mm	36	41	46	50	55	60	65	70	80
K: Head thickness	mm	19	22	24	26	29	31	33	35	40
e: distance between apexes	mm	39,6	45,2	50,9	55,4	60,8	66,4	71,3	76,9	88,2



Cable tray Bolt DIN-603

MATERIALS

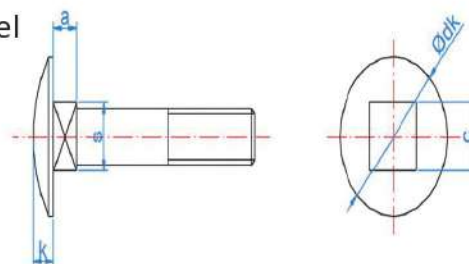
Mild Steel, Carbon Steel, Alloy Steel & Stainless Steel

SIZE RANGE

M5 to M12 in metric series

ORDERING INFORMATION

- Dimensions -- Size Diameter and Length
- Finish -- Zinc Plated



SIZES	M5	M6	M8	M10	M12	
Ødk: head diameter	mm	13	16	20	24	30
k: head thickness	mm	3	3.5	4.5	5	6.5
a: square thickness	mm	3.5	4	5	6	8
S	mm	5	6.2	7.8	9.85	11.6
C	mm	5	6	8	10	12



Coupling Nut

MATERIALS

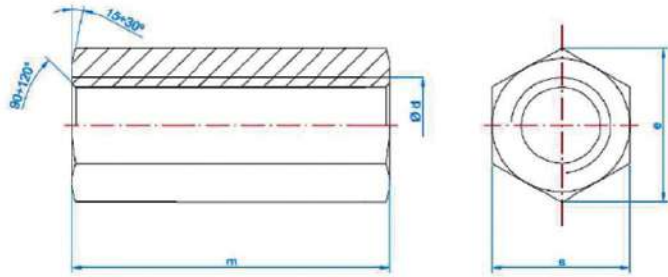
Mild Steel, Carbon Steel, Alloy Steel

SIZE RANGE

M6 to M20 in metric series

ORDERING INFORMATION

- Dimensions -- Size Diameter
- Finish -- Zinc Plated



SIZES		M6		M8	M10	M12	M16	M20
Ød: Thread		M6	M6	M8	M10	M12	M16	M20
m: total length	mm	20	30	25	30	35	50	60
s: installation		10	10	11	13	17	24	30



Hex Nut DIN-934

MATERIALS

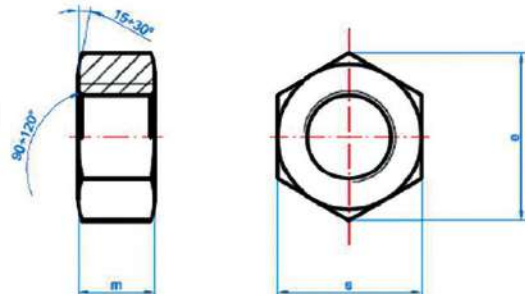
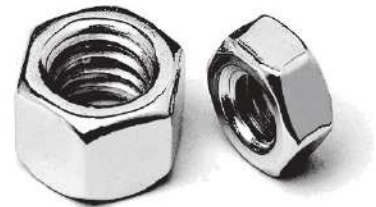
Mild Steel, Carbon Steel, Alloy Steel & Stainless Steel

SIZE RANGE

- M4 to M36 in metric series
- Bigger sizes can be manufactured as per order

ORDERING INFORMATION

- Dimensions -- Size Diameter
- Finish -- Black, Zinc Plated, Hot Dip Galvanized



SIZES		M4	M5	M6	M8	M10	M12	M14	M16
s: distance between faces	mm	7	8	10	13	17	19	22	24
m: thickness	mm	3.2	4	5	6.5	8	10	11	13
e: distance between apexes	mm	7.7	8.8	11.1	14.4	18.9	21.1	24.5	26.8
Torque wrench		7	8	10	13	17	19	22	24

SIZES		M18	M20	M22	M24	M27	M30	M33	M36
s: distance between faces	mm	27	30	32	36	41	46	50	55
m: thickness	mm	15	16	18	19	22	24	26	29
e: distance between apexes	mm	29.6	32.9	35.0	39.6	45.2	50.9	55.4	60.8
Torque wrench		27	30	32	36	41	46	50	55



Washer DIN-125

MATERIALS

Mild Steel, Carbon Steel, Alloy Steel

SIZE RANGE

M6 to M36 in metric series

ORDERING INFORMATION

- Dimensions -- Size Diameter
- Finish -- Zinc Plated, Hot Dip Galvanized



SIZES		M6	M8	M10	M12	M14	M16	M18
Ød1: interior diameter	mm	6,4	8,4	10,5	13,0	15,0	17,0	19,0
Ød2: exterior diameter	mm	12	16	20	24	28	30	34
h: thickness	mm	1,6	1,6	2	2,5	2,5	3	3

SIZES		M20	M22	M24	M27	M30	M33	M36
Ød1: interior diameter	mm	21,0	23,0	25,0	28,0	31,0	34,0	37,0
Ød2: exterior diameter	mm	37	39	44	50	56	60	66
h: thickness	mm	3	3	4	4	4	5	5

Washer DIN-9021

MATERIALS

Mild Steel, Carbon Steel, Alloy Steel

SIZE RANGE

M6 to M24 in metric series

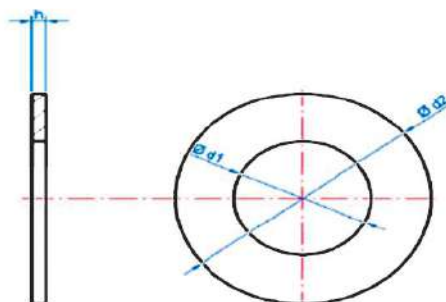
ORDERING INFORMATION

- Dimensions -- Size Diameter
- Finish -- Zinc Plated, Hot Dip Galvanized



SIZES		M6	M8	M10	M12	M14	M16	M18	M20	M22	M24
Ød1: interior diameter	mm	6,4	8,4	10,5	13,0	15,0	17,0	20,0	22,0	24,0	26,0
Ød2: exterior diameter	mm	18	24	30	37	44	50	56	60	66	72
h: thickness	mm	1,6	2	2,5	3	3	3	4	4	5	5

Technical Drawings for Wsher Din-125 & Din-9021



Threaded Rod

MATERIALS

Mild Steel, Carbon Steel, Alloy Steel & Stainless Steel

SIZE RANGE

- M6 to M64 in metric series
- Default Length 200cm
- Other Lengths can be manufactured as per order

ORDERING INFORMATION

- Dimensions -- Size Diameter & Length
- Finish -- Black, Zinc Plated, Hot Dip Galvanized



Nominal SIZE	Pitch mm	Stress Area mm ²	Minimum Proof Load (kN)		
			Property Class		
			4.6	8.8	10.9
M6	1	20.1	4.5	11.7	16.7
M8	1.25	36.6	8.2	21.2	30.4
M10	1.5	58.0	13.1	33.6	48.1
M12	1.75	84.3	19.0	48.9	70.0
M14	2	115	25.9	66.7	95.5
M16	2	157	35.3	91.1	130
M18	2.5	192	43.2	115	159
M20	2.5	245	55.1	147	203
M22	2.5	303	68.2	182	251
M24	3	353	79.4	212	293
M27	3	459	103	275	381
M30	3.5	561	126	337	466
M33	3.5	694	156	416	576
M36	4	817	184	490	678
M39	4	976	220	586	810
M42	4.5	1121	252	673	930
M48	5	1473	331	884	1223
M52	5	1758	396	1055	1459
M64	6	2676	602	1606	2221

Note: 1 kN (mass) = 101.97 KG



Self-Tapping Screw tk

PURPOSE

- For use in fixings where an even distribution of pressure is required, without the need for assembling additional flat washers and without the head protruding excessively
- For fixing soft materials on metal & Large or oversized holes

MATERIALS

Mild Steel, Carbon Steel, Alloy Steel

AVAILABLE LENGTHS

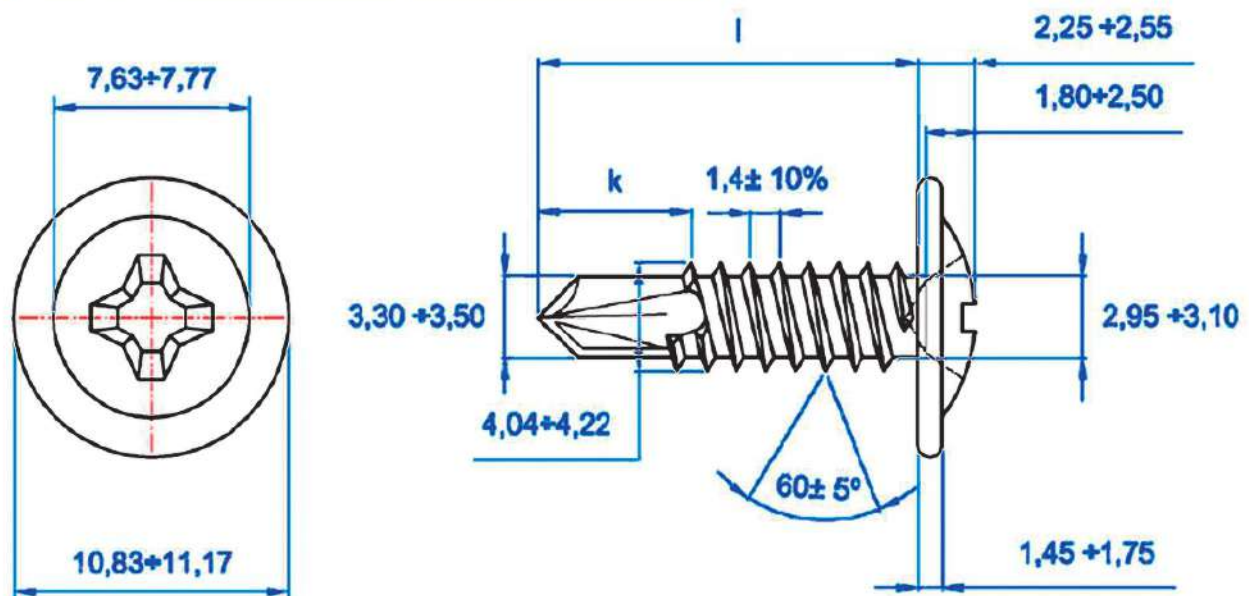
1cm - 1.5cm - 1.7cm - 2cm - 2.5cm

ORDERING INFORMATION

- Dimensions -- Length
- Finish -- Zinc Plated



Installation data		
dk: head diameter ≤	mm	11.17
Head thickness ≤	mm	2.55
Ph bit	mm	nº 2
k: point length	mm	4.4 – 5.2
D: exterior thread diameter	mm	4.22
d: interior thread diameter	mm	3.10
p: thread	mm	1.4
l: lengths	mm	10: 25
Drill capacity	mm	1.00 - 2.50



Self-Tapping Screw

PURPOSE

For general plate-plate joints

MATERIALS

Mild Steel, Carbon Steel, Alloy Steel

AVAILABLE SIZES

6 mm x 2.5 cm

6 mm x 5 cm

ORDERING INFORMATION

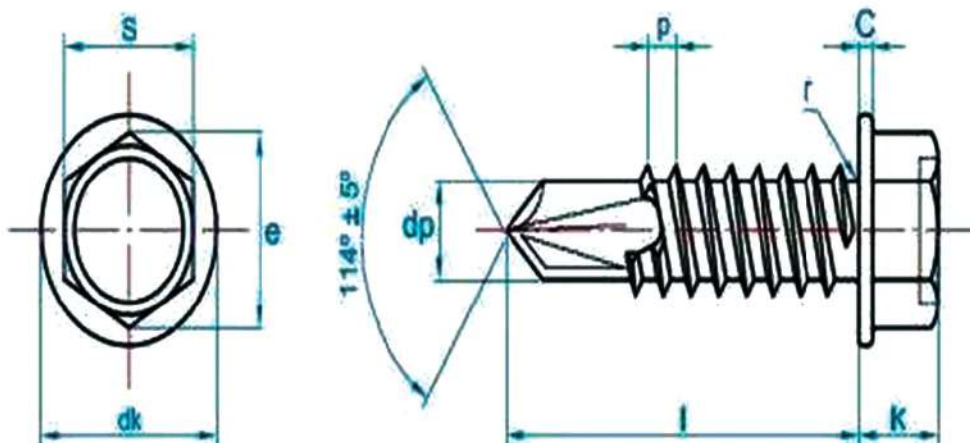
Dimensions -- Size Diameter & Length

Finish -- Zinc Plated



Versions with assembled EPMD washer for sealed joints in roofing

Installation data		
dk: washer head diameter	mm	10
k: head thickness	mm	4.3
c: washer thickness	mm	1.6
s: spanner	mm	8
D: exterior thread diameter	mm	4.8
d: interior thread diameter	mm	3.85
p: thread	mm	1.6
l: lengths	mm	25 & 50
Drill capacity	mm	1.75 - 4.40
Torque wrench		



Screw Bolt with Hex Head DIN-571

PURPOSE

Ironworks previously drilled

MATERIALS

Mild Steel, Carbon Steel, Alloy Steel

SIZE RANGE

M6 to M12 in metric series

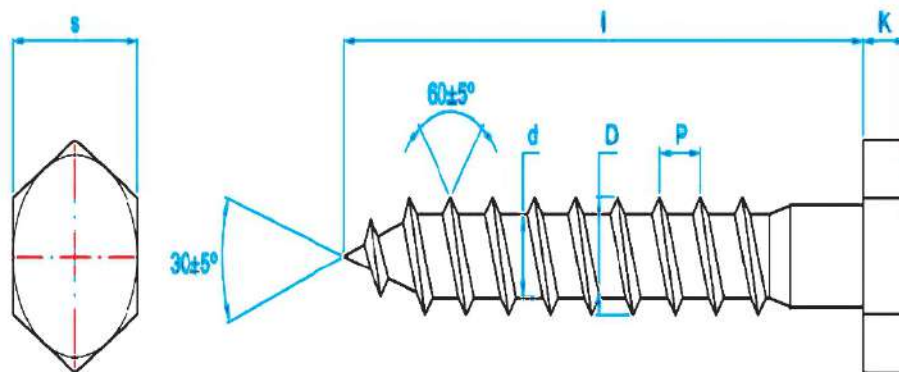
ORDERING INFORMATION

- Dimensions -- Size Diameter and Length
- Finish -- Zinc Plated



use with nylon plug

Sizes		M6	M8	M10	M12
D: Outer thread diameter	mm	6	8	10	12
d: Inner thread diameter	mm	4.2	5.6	7	9
p: Pitch	mm	2.6	3.5	4.5	5
k: Head thickness	mm	4	5.5	7	8
l: Screw length	mm	25 - 120	30 - 200	40 - 200	60 - 260
S: Torque wrench		10	13	17	19



Screw Bolt DIN-7981

PURPOSE

General use in metal plate fixings

MATERIALS

Mild Steel, Carbon Steel, Alloy Steel

AVAILABLE LENGTHS

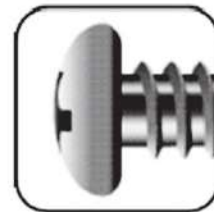
- 4 cm
- 5 cm

ORDERING INFORMATION

- Dimensions -- Length
- Finish -- Zinc Plated



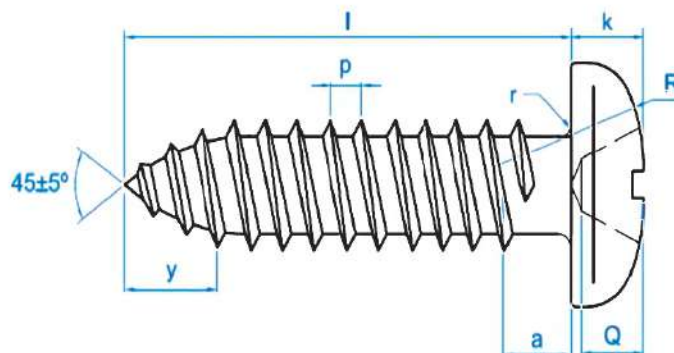
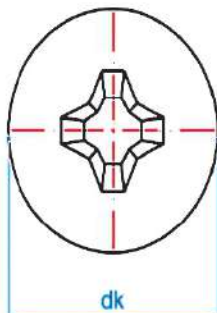
Installation data		
dk: head diameter	mm	9.4
k: head thickness	mm	3.55
Ph bit no.		2
R: head radius	mm	7.2
D: exterior thread diameter	mm	4.8
d: interior thread diameter	mm	3.58
p: thread	mm	1.6
y: point length ≤	mm	4.3
l: lengths	mm	40 & 50



Dome head



Self-tapping Point



Notes

A series of horizontal dotted lines for writing notes, spanning the width of the page.

Notice

This catalogue is designed to be helpful to engineers and contractors in the application and selection of pipe hangers

Speed-Fix company reserve the right to change the specification, materials and process or the availability of products at any time without prior notice. While every effort had been made to assure the accuracy of information contained in this catalogue at the time of publication

Speed-Fix company is not responsible for in accuracies resulting from omissions

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ISO certificates

SPEED FIX 2024



CERTIFICATE

QUALITY MANAGEMENT SYSTEM

SPEED FIX

(MOHAMED ELSAID ABDELHAI ELBELTAGY)

6 ABO EL-MAATY ST., AL-AGOZA, GIZA, EGYPT

SCOPE

MANUFACTURING OF PIPE CLAMPS AND MECHANICAL FIXATION SYSTEMS AND IMPORT. EXPORT, GENERAL TRADING, FORMING AND COATING METAL.

This is to certify that the Quality Management System of the above-mentioned Company meets the requirement of

ISO 9001:2015

MSE: 420524A

Certificate Number

09 MAY 2024

Date Of Last Issue

09 MAY 2024

Date Of Initial Registration

08 MAY 2025

Date Of Expiry

Certificate is valid for 3 years (09/05/2024 to 08/05/2027) from the date of Initial registration.
Upon successful completion of surveillance audit a new certificate with an extended validity will be issued.

Rev.00, dt. 09.05.2024

IAF QR CODE



General Manager Of OSS Middle East



QMS Certification
CAB # 011702



For Verification and updated information please visit www.ossmiddleeast.com/verify-certificates
126 Al Arwam Church, Janaklees, Alexandria, Egypt, Email: Info@ossmiddleeast.com, Tel: +201211110296



CERTIFICATE

ENVIRONMENTAL MANAGEMENT SYSTEM

SPEED FIX

(MOHAMED ELSAID ABDELHAI ELBELTAGY)

6 ABO EL-MAATY ST., AL-AGOZA, GIZA, EGYPT

SCOPE

MANUFACTURING OF PIPE CLAMPS AND MECHANICAL FIXATION SYSTEMS AND IMPORT. EXPORT, GENERAL TRADING, FORMING AND COATING METAL.

This is to certify that the Environmental Management System of the above mentioned Company meets the requirement of

ISO 14001:2015

MSE: 420524B

Certificate Number

09 MAY 2024

Date Of Last Issue

09 MAY 2024

Date Of Initial Registration

08 MAY 2025

Date Of Expiry

Certificate is valid for 3 years (09/05/2024 to 08/05/2027) from the date of Initial registration.
Upon successful completion of surveillance audit a new certificate with an extended validity will be issued.

Rev.00, dt. 09.05.2024

IAF QR CODE



General Manager Of OSS Middle East



EMS Certification
CAB # 011702



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CERTIFICATE

OCCUPATIONAL HEALTH & SAFETY MANAGEMENT SYSTEM

**SPEED FIX
(MOHAMED ELSAID ABDELHAI ELBELTAGY)**

6 ABO EL-MAATY ST., AL-AGOZA, GIZA, EGYPT

SCOPE

MANUFACTURING OF PIPE CLAMPS AND MECHANICAL FIXATION SYSTEMS AND IMPORT. EXPORT, GENERAL TRADING, FORMING AND COATING METAL.

This is to certify that the Occupational Health & Safety Management System of the above-mentioned Company meets the requirement of

ISO 45001:2018

MSE: 420524C

Certificate Number

09 MAY 2024

Date Of Last Issue

09 MAY 2024

Date Of Initial Registration

08 MAY 2025

Date Of Expiry

Certificate is valid for 3 years (09/05/2024 to 08/05/2027) from the date of Initial registration.
Upon successful completion of surveillance audit a new certificate with an extended validity will be issued.

Rev.00, dt. 09.05.2024

IAF QR CODE



General Manager Of OSS Middle East



OH&S Certification
CAB # 011702



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126 Al Arwam Church, Janaklees, Alexandria, Egypt, Email: Info@ossmiddleeast.com, Tel: +201211110296



TESTS RESULTS

المركز القومي لبحوث الإسكان والبناء
معهد بحوث الهندسة الصحية والبيئية
صاندر رقم ٢٠٢٤/٦/١٢
التاريخ ٢٠٢٤/٧/٩

السادة / Speed Fix

تحية طيبة وبعد،،،

نتشرف بأن نرفق لسيداتكم نتائج الاختبارات وذلك بناء على خطابكم الوارد إلينا برقم (١٢٧٨) بتاريخ ٢٠٢٤/٦/١٢ علي عدد ٣ عينه Clevis ، وعدده عينات pipe clamp with laining ، عدد ٢ عينه Ubolt - عدد ٢ عينه Riser clamp وعدد ٤ drop in Anchor وعدد ٣ عينه bolt anchor وعدد ٤ threaded rod والتي توريدها بمعرفة العميل

هذا وقد سددت الرسوم المقررة بقيمه ٨٨٥٦٠ جنيها بموجب القسيمه رقم ٢٥٨٩٦٥ تاريخ ٢٠٢٤/٦/١٢

مدير معهد الهندسة الصحية والبيئية



نائب رئيس مجلس الإدارة
لشئون البحوث والدراسات
أ.د /
طارق محمد بهاء الدين



• صلاحية هذا التقرير تسرى لمدة ثلاث شهور من تاريخ اصداره

مرفقات :
نتائج الاختبارات



المركز القومي لبحوث الإسكان والبناء
معهد بحوث الهندسة الصحية والبيئية
معمل اختبارات المواسير

تقرير اختبار

الجهة الطالبة : سبيد فيكس

نوع العينة : عدد ٣ عينة Clevis مقاس ٨،٦،٤ بوصة

وعدد ٥ Pipe clamp with laining مقاس ١،١،٢٥،٢،٥،٤،٤،٦ بوصة

عدد ٢ عينة Ubolt مقاس ٦،٤ بوصة

عدد ٢ عينة Riser clamp مقاس ٦،٤ بوصة

عدد ٤ Drop in Anchor M8-M10-M12-M16

عدد ٣ عينة Bolt anchor M10-M12-M16

عدد ٤ Threaded rod M8-M10-M12-M16

كود العينات VCI 800- 821:

تسليم العينات : تم تسليم العينات بمعرفة الجهة الطالبة للاختبار

تاريخ استلام العينات : ٢٠٢٤/٠٦/١٢

تاريخ إجراء الاختبار : ٢٠٢٤/٠٧/٣

مواصفات الاختبارات: - UL 203 Standard for pipe hanger equipment for fire protection service

- هذه النتائج تسري على العينات المورد فقط .
- تم تسليم العينات بمعرفة الجهة طالبة الاختبار .
- البيانات المذكورة بعالية طبقا لما جاء بخطاب الجهة طالبة الاختبار .
- مدة سريان هذا التقرير ٣ شهور ولا يسمح بنسخ هذا التقرير الا بمعرفة كتابية من المركز .
- لنتائج المرفقة تسري فقط على العينة المقدمة للمركز مع الاخذ في الاعتبار ان النتائج لا تسري ولا يعتد بها لاعتماد اي منتج كمي / والممارسات / والتوريدات وكذا التصدير .
- يلتزم المعمل بنود المواصفة الدولية لاعتماد المعامل ISO 17025 من حيث سرية البيانات والشفافية والحيادية مع العملاء



SEI-P/FR/WP/22/02

مشرف المعمل

القائم بالاختبار