FALCON
ENGINEERING

UL LISTED

FM APPROVED

LEADER

MANUFACTURERS

Pipes, Clamps, Hangers, Fasteners & Support Systems

CERTIFICATES

FM APPROVED

Certificate of Compliance

This certificate is issued for the following:

Pipe Hanger Components for Automatic Sprinkler Systems

Model CH – Clevis Hangers in sizes 3/4 through 8 inch
Model SH – Loop Hangers in sizes 3/4 through 8 inch
Model NCR – Pipe Clamp Hangers with Lining in sizes 3/4 through 4 inch
Model RC – Riser Clamps in sizes 3/4 through 6 inch
Model USC – U Strap Hangers in sizes 3/4 through 6 inch
(see complete listing on following page)

Prepared for:

Saketh Exim Pvt. Ltd
Plot No. D 146/147 MIDC – Turbha - TTC
Navi Mumbai, Maharashtra 400 703
India

Manufactured at:

Saketh Exim Pvt. Ltd
Unit No. 1/B – Badrinath, Ground Floor
Tungareshwar Industrial Complex
Sativali Village, Vasai (East), Dist. Thane,
Maharashtra 401 208
India

FM Approvals Class: 1951, 1952, 1953

Approval Identification: 0003059204 Approval Granted: May 23, 2018

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

David B. Fuller
VP, Manager - Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062 USA

FM Approvals
Member of the FM Global Group

Page 1 of 2

SGI

Certificate of Registration

This is to Certify that the Quality Management System of

SAKETH EXIM PVT. LTD.

PLOT NO. D-146-147, TURBHE MIDC, TTC INDUSTRIAL ESTATE, OPP. BALMER LAWRIE VAN LEER CO., TURBHE, NAVI MUMBAI- 400705, MAHARASHTRA, INDIA

FACTORY ADDRESS :- APL HOUSE B-1, BADRINATH, GROUND FLOOR, TUNGARESHWAR INDUSTRIAL COMPLEX, SR.NO-1, SURVEY NO-42, NEAR SHIV MANDIR, SATIVALI VILLAGE, VASAI (EAST), 401208, MAHARASHTRA, INDIA

Has been assessed and found to be in accordance with the requirements of standard detailed below

ISO 9001:2015

This Certificate is applicable to the following scope

"UL AND FM APPROVED PIPE HANGERS AND SUPPORT SYSTEMS, ANTI VIBRATION PRODUCTS, RUBBER SUPPORT INSERTS, VALVES, S.S FLOOR DRAINS"

Certificate No: 10Q/SEN/08063

Issue Date	03 Aug 2016	Valid Until:	02 Aug 2019
1st Surveillance on or before	02 July 2017	Recertification Date	02 Aug 2019
2nd Surveillance on or before	02 July 2018		

To Check Validity of this certificate please Visit www.sgicert.org

JAS-ANZ

IAF

Auth. Sign

HO: E-48 , GROUND FLOOR , NEW MULTAN NAGAR , NEW DELHI-110056 , INDIA

Email - info@sgicert.org , cert.sgi@gmail.com , Website :- www.sgicert.org

CERTIFICATE OF COMPLIANCE

Certificate Number	20170531-EX16250
Report Reference	EX16250-20130628
Issue Date	2017-MAY-31
Issued to:	SAKETH EXIM PRIVATE LIMITED PLT-PAP-D146/147-M.I.D.C TURBHE - INDL AREA OPP- BALMER LAWRIE VANNLEER NAVI MUMBAI MH 400407 INDIA
This is to certify that representative samples of	HANGERS, PIPE SCH : Clevis hanger SH: Band hanger PC-1: Pipe Clamp PC-2: Pipe Clamp SE-USC: U Strap SE-UB Series: U Bolt
	Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	UL 203 Pipe Hanger Equipment for Fire Protection Service
Additional Information:	See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

Page 1 of 1

MSS
Since 1924

MANUFACTURERS STANDARDIZATION SOCIETY
OF THE
VALVE AND FITTING INDUSTRY, INC.

HEREBY CERTIFIES THAT

SAKETH EXIM, LTD.

IS A MEMBER IN GOOD STANDING FOR THE YEAR 2018

Frederic J. Washburn
President

David Thompson
Executive Director

INTRODUCTION

SAKETH EXIM LTD is an Industrial Powerhouse with a dominant presence in Manufacturing and Fabrication of Metal Products used in Pipe Support Systems, HVAC Anti Vibration System and Equipments for Industrial , Commercial , Utility and OEM Installation. Saketh Exim Ltd is Young, Agile and responsive company which is constantly expanding its capabilities to fuel its fairy tale journey that has seen it grown its standards of Research, Design, Engineering and Manufacturing that go into each and every product that comprise our Pipe Hangers Products Line. Our customer have access to the most complete Support Systems offered in the Industry, including Pipe Hangers, Metal Framing, Cable Tray, Slotted Channels, Angels, Fasteners, Rubber Support Inserts, Threaded Bars and Anchors. Anti vibration flexible connector, Isolator seismic products.

Saketh's products are listed by **Underwriter's Laboratory Inc. (U.S.A.) and FM Global Approved (U.S.A.).**All Saketh products are manufactured to meet or exceed industry standards set for their design and manufacture.

Saketh products are produced in technologically most advanced modern plants. These facilities are located in Commercial Capital of the India i.e. Mumbai.

This catalogue is designed to be helpful to the engineers and contractors in the application and selection of pipe hangers, support for construction, HVAC maintenance, fire & safety ,Pipe hanger.

If a unique application require a special products not included in this catalogue, Saketh engineer personnel are ready to furnish design consultation and realistic material estimates in addition

NOTICE

Saketh reserves 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 been made to assure the accuracy of information contained in this catalogue at the time of publication, Saketh is not responsible for in accuracies resulting from undetected errors or omissions.

MATERIALS

Mild Steel

Carbon steel is used in the manufacture of Saketh 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.

CORROSION

All metal surfaces exposed to the environment are affected by corrosion. Depending on the physical properties of the metal and its proximity to other dissimilar metals, an electrochemical reaction may occur which causes an attack on the metal itself, resulting in corrosion. Chemical corrosion is limited to highly corrosive environments, high temperatures, or a combination of both.

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. In all cases, the zinc protects the steel first as a sacrificial anode to repair bare areas on cut edges and gouges.

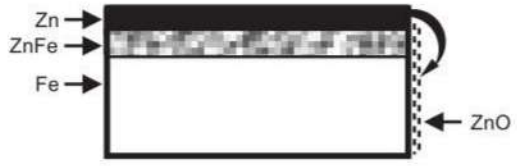
When exposed to air and moisture, zinc forms a tough, adherent protective film consisting of a mixture of zinc oxides, hydroxides, and carbonates. The corrosion resistance of zinc is directly related to its thickness and the environment. For example a 0.2 mil (5 µm) coating will last twice as long as a 0.1 mil (2.5 µm) coating in the same environment.

Electro-Galvanized
(ASTM B633 SC1 or SC3)

An electro-galvanized process deposits a coating of zinc on the steel by electrolysis from a bath of zinc salts. This coating is pure zinc and adheres to the steel with a molecular bond. A maximum of 0.5 mils (12.7 µm) of zinc can be applied by this method. This coating is recommended for in-door use in relatively dry areas.

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.



Protection of cut edges with zinc coatings.

Cut edges and welded areas are not zinc coated; however, zinc near the uncoated metal becomes a sacrificial anode which protects the bar areas after a short period of time. 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 (available from B-Line) 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.

Plastic Coating

Some products offered by Saketh are plastic or vinyl coated for prevention of galvanic reaction between materials or for noise reduction. These coated products can also be used where contact between glass pipe and hanger is not desirable. Felt lined hangers may be substituted for same purpose.

Red Primer

A corrosion resistant metal primer containing rust inhibitive pigments.

Quality Assurance

Saketh's Quality Assurance Program has been developed and implemented for compliance to various industry standards and specifications.

General

Torque

The torque values in this catalog 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%.

Charts and Tables

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

Saketh reserves the right to make specification changes without notice.

SECTION 15140 - PIPE HANGERS AND SUPPORTS

Part I – GENERAL

1.01 SECTION INCLUDES

A. The work covered under this section consists of the furnishing of all necessary labor, supervision, materials, equipment, and services to completely execute the pipe hanger and supports as described in this specification.

1.02 REFERENCES

A. ASTM B633 - Specification for Electrodeposited Coatings of Zinc on Iron and Steel.
B. ASTM A123 - Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
C. ASTM A653 - Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
D. ASTM A1011 - Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, and High-Strength Low-Alloy with Improved Formability.
E. ANSI/MSS SP-58 - Manufacturers Standardization Society: Pipe Hangers and Supports - Materials, Design, and Manufacture.
F. ANSI/MSS SP-69 - Manufacturers Standardization Society: Pipe Hangers and Supports - Selection and Application.
G. NFPA 13 - Installation of Sprinkler Systems.

1.03 QUALITY ASSURANCE

A. Hangers and supports used in fire protection piping systems shall be listed and labeled by Underwriters Laboratories FM APPROVALS.
B. Steel pipe hangers and supports shall have the manufacturer's BRAND name Tembo Sevenstar / Etalia, and applicable size stamped in the part itself for identification.
C. Hangers and supports shall be designed and manufactured in conformance with ANSI/MSS SP-58.
D. Supports for sprinkler piping shall be in conformance with NFPA 13.

1.04 SUBMITTALS

A. Submit product data on all hanger and support devices, including shields and attachment methods. Product data to include, but not limited to materials, finishes, approvals, load ratings, and dimensional information.

Part II – PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

A. Manufacturer: Subject to compliance with these specifications, pipe hanger and support systems shall be as manufactured by Saketh Exim Ltd.

2.02 PIPE HANGERS AND SUPPORTS

A. HANGERS

1. Uninsulated pipes 2 inches and smaller:
   a. Sprinkler Hanger.
   b. Pipe Hanger.
   c. Clevis Hanger.

B. VERTICAL SUPPORTS

1. Steel Riser Clamp sized to fit outside diameter of pipe.

C. COPPER TUBING SUPPORTS

1. Hangers shall be sized to fit copper tubing outside diameters.
   a. Sprinkler Hanger.
   b. Pipe Hanger.
   c. Clevis Hanger.

D. SUPPLEMENTARY STRUCTURAL SUPPORTS

1. Design and fabricate supports using structural quality steel bolted framing materials as manufactured by Saketh. Channels shall be roll formed, 12 gauge ASTM A1011 SS Grade 33 steel, 15/8" x 15/8" or greater as required by loading conditions. Submit designs for pipe tunnels, pipe galleries, etc., to engineer for approval. Use clamps and fittings designed for use with the strut system.

2.04 UPPER ATTACHMENTS

A. BEAM CLAMPS

1. Beam clamps shall be used where piping is to be suspended from building steel. Clamp type shall be selected on the basis of load to be supported, and load configuration.
2. C-Clamps shall have locknuts and cup point set screws.
3. Center loaded beam clamps shall be used where specified.

B. CONCRETE INSERTS

1. Cast in place spot concrete inserts shall be used where applicable; either steel or malleable iron body. Spot inserts shall allow for lateral adjustment and have means for attachment to forms. Select insert nuts to suit threaded hanger rod sizes.
2. Continuous concrete inserts shall be used where applicable. Channels shall be 12 gauge, ASTM A 1011 SS Grade 33 structural quality carbon steel, complete with Styrofoam inserts and end caps with nail holes for attachment to forms. The continuous concrete insert shall have a load rating of 2,000 lbs/ft. suitable for strut and rod sizes.

2.05 VIBRATION ISOLATION AND SUPPORTS

A. For refrigeration, air conditioning, hydraulic, pneumatic, and other vibrating system applications, uses a clamp that has a vibration dampening insert and a nylon inserted locknut.
B. For larger tubing or piping subjected to vibration, use neoprene or spring hangers as required.
C. For base mounted equipment use vibration pads, molded neoprene mounts, or spring mounts as required.
D. Vibration isolation products are manufactured by Saketh Exim Ltd.

2.06 ACCESSORIES

A. Hanger rods shall be threaded both ends. Or continuous threaded rods of circular cross section. Use adjusting locknuts at upper attachments and hangers.
   No wire, chain, or perforated straps are allowed.
B. Shields shall be 180° galvanized sheet metal, 12 inch minimum length, 18 gauge minimum thickness, designed to match outside diameter of the insulated pipe.
C. Pipe protection saddles shall be formed from carbon steel, 1/8 inch minimum thickness, sized for insulation thickness. Saddles for pipe sizes greater than 12 inch shall have a center support rib.

2.07 FINISHES

INDOOR FINISHES

A. Hangers and clamps for support of bare copper piping shall be coated with copper colored epoxy paint. Additionally a plastic coating or a felt lining in hanger can be used.
B. Hangers for other than bare copper pipe shall be zinc plated in accordance with ASTM B633-SC3.
C. Strut channels shall be pre-galvanized in accordance with ASTM A653 G90 or have an electro-deposited green epoxy finish.

OUTDOOR AND CORROSIVE AREA FINISHES

D. Hangers and strut located outdoors shall be hot dip galvanized after fabrication in accordance with ASTM A123. All hanger hardware shall be hot-dip galvanized or stainless steel. Zinc plated hardware is not acceptable for outdoor or corrosive use.
E. Hangers and strut located in corrosive areas shall be Type 304 (316) stainless steel with stainless steel hardware.

INDEX

U Strap
Page 16-17

U Strap with Lining
Page 18-19

Riser Clamp
Page 20

Riser Clamp With Lining
Page 21

Riser Clamp- Four Bolts
Page 22

Three Bolt Pipe Clamp
Page 23

Offset Pipe Clamp
Page 24

U Bolt
Page 25

U Bolt with Lining
Page 26

Half Saddle
Page 27

Light Saddle
Page 28

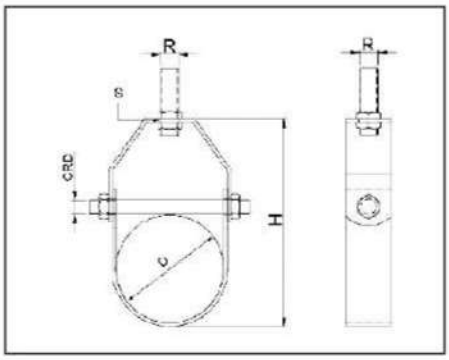
Heavy Saddle
Page 29

Offset Hanger
Page 30

Strut Clamp- Two Piece channels clip
Page 31

Pipe Hangers

CLEVIS HANGER



UL LISTED

FM APPROVED

APPLICATION:

A CLEVIS HANGER provides for sizeable loads to be supported and for an elevation adjustment depending upon the pipe diameter. The lower nut adjusts the piping to the proper elevation and the upper nut, when locked into position, prevents loosening due to vibration.

CONSTRUCTION:

A CLEVIS HANGER consists of a yoke and a support strap made from shaped Mild 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.

MATERIAL:

Mild Steel. Also other materials can be provided on request

APPROVALS:

Underwriter's Laboratory (UL)
Factory Mutual's (FM)
Manufacturers Standardization Society ANSI/MSS SP-58 & SP-69 (Type 1)
Federal Specification WW-H-171E & A-A-1192A (Type 1)

MAXIMUM TEMPERATURE: 343°C (650°F)

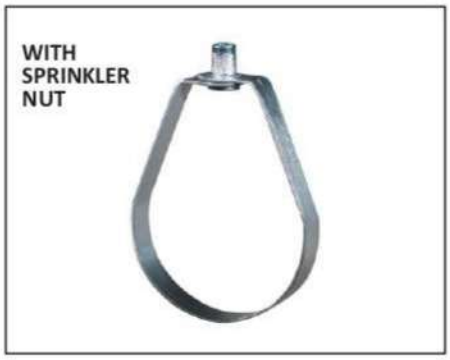
FINISH AVAILABLE:

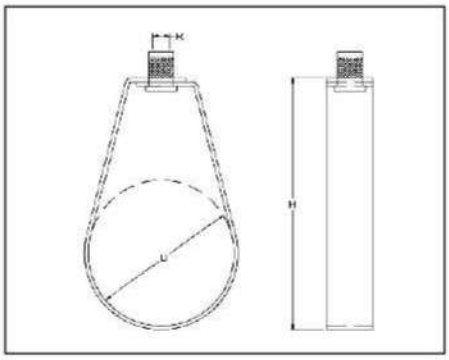
Electro-Galvanized, Hot Dip Galvanized, Epoxy, Plain

Product Code	Nominal Pipe Size		Pipe OD (mm)	Material Dimension (mm) Height	Top Hole Dia.	Hanger Rod Size (mm)	Cross Bolt Dia.	MAX LOAD
	In.	mm	D	H	S	R	(CRD)	(KG)
SE-CH-22	½"	DN15	21.3	68	11	M10	M8	350
SE-CH-27	¾"	DN20	26.7	72	11	M10	M8	350
SE-CH-34	1"	DN25	33.4	76	11	M10	M8	350
SE-CH-42	1 ¼"	DN32	42.1	87	11	M10	M8	350
SE-CH-48	1 ½"	DN40	48.2	97	11	M10	M8	350
SE-CH-60	2"	DN50	60.3	114	11	M10	M8	350
SE-CH-73	2 ½"	DN65	73.0	142	13	M12	M10	780
SE-CH-89	3"	DN80	88.9	165	13	M12	M10	780
SE-CH-114	4"	DN100	114.3	202	13	M12	M10	780
SE-CH-141	5"	DN125	141.3	236	13	M12	M12	1250
SE-CH-168	6"	DN150	168.3	278	13	M12	M12	1250
SE-CH-219	8"	DN200	219.1	338	13	M12	M12	2100
SE-CH-273	10"	DN250	273.1	419	17	M16	M16	2100
SE-CH-323	12"	DN300	323.8	490	21	M20	M20	2100
SE-CH-356	14"	DN350	355.6	556	21	M20	M20	3800
SE-CH-406	16"	DN400	406.4	610	25	M24	M20	3800
SE-CH-457	18"	DN450	457.2	675	25	M24	M24	4000
SE-CH-508	20"	DN500	508.0	715	32	M30	M24	4000
SE-CH-610	24"	DN600	609.6	850	32	M30	M24	9400
SE-CH-762	30"	DN750	762.0	995	32	M30	M24	9400

NOTE : Clevis Hanger of all Non Standard Sizes to fit upon Rubber Support Insert can be manufactured.

SPRINKLER HANGER





UL LISTED

FM APPROVED

APPLICATION:

A SPRINKLER HANGER recommended to provide vertical support to non insulated piping systems. By adjusting the position of the sprinkler nut on the hanger rod at the top of the hanger, pipe elevation can be altered.

CONSTRUCTION:

A SPRINKLER HANGER consists of a piece of mild steel shaped to support pipe. Gives Double thickness at the support. Most suitable for fire extinguishing pipes installation.

MATERIAL:

Mild Steel. Also other materials can be provided on request

APPROVALS:

Underwriter's Laboratories (UL)
Factory Mutual Approved (FM)
Manufacturers Standardization Society ANSI/MSS SP-58 & SP-69 (Type10)
Federal Specification WW-H-171E & A-A-1192A (Type 10)

MAXIMUM TEMPERATURE: 343°C (650°F)

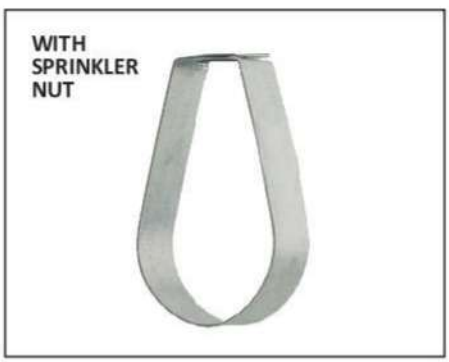
FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Epoxy, Plain

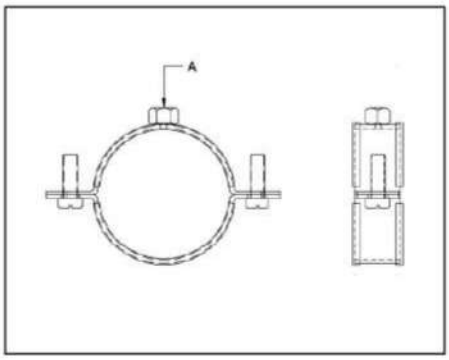
Product Code	Nominal Pipe Size		Pipe OD (mm)	Height	Hanger Rod Size (mm)	MAX LOAD
	In.	mm	D	H	R	(KG)
SE-CH-27	¾"	DN20	26.7	61	M10	220
SE-CH-34	1"	DN25	33.4	70	M10	220
SE-CH-42	1 ¼"	DN32	42.1	78	M10	220
SE-CH-48	1 ½"	DN40	48.2	84	M10	220
SE-CH-60	2"	DN50	60.3	102	M10	220
SE-CH-73	2 ½"	DN65	73.0	118	M10	300
SE-CH-89	3"	DN80	88.9	144	M10	300
SE-CH-114	4"	DN100	114.3	176	M10	300
SE-CH-168	6"	DN150	168.3	262	M12	550
SE-CH-219	8"	DN200	219.1	305	M12	1300
SE-CH-273	10''	DN250	273.0	315	M12	1300
SE-CH-323	12''	DN300	323.8	378	M12	1300

SPRINKLER HANGER

Product Code	Nominal Pipe Size		Pipe OD (mm)	Height	Hole Size (mm)	MAX LOAD
	In.	mm	D	H	R	(KG)
SE-SHWN – 27	¾"	DN20	26.7	61	M10	220
SE-SHWN – 34	1"	DN25	33.4	70	M10	220
SE-SHWN – 42	1 ¼"	DN32	42.1	78	M10	220
SE-SHWN – 48	1 ½"	DN40	48.2	84	M10	220
SE-SHWN – 60	2"	DN50	60.3	102	M10	220
SE-SHWN – 73	2 ½"	DN65	73.0	118	M10	300
SE-SHWN – 89	3"	DN80	88.9	144	M10	300
SE-SHWN – 114	4"	DN100	114.3	176	M10	300
SE-SHWN – 168	6"	DN150	168.3	262	M12	550
SE-SHWN – 219	8"	DN200	219.1	305	M12	1300
SE-SHWN – 273	10''	DN250	273.0	315	M12	1300
SE-SHWN – 323	12''	DN300	323.8	378	M12	1300



PIPE HANGER WITH EPDM LINING



APPLICATION:

PIPE HANGER WITH EPDM LINING is recommended for non-insulated stationary pipelines in a horizontal position. It can be used for supporting pipes along with the roof.

CONSTRUCTION:

PIPE HANGER with EPDM lining consists of piece of mild steel shaped to wrap around the pipe. The selection of the proper PIPE HANGER WITH EPDM LINING depends upon load to be carried. Permits installation before and after pipe is in place. Reduces noise upto 18 dB.

MATERIAL:

Mild Steel. Also other materials can be provided on request

APPROVALS:

Underwriter's Laboratories Listed (UL)
Factory Mutual (FM)
Manufacturers Standardization Society ANSI/MSS SP-58 & SP-69(Type 12)
Federal Specification WW-H-171E & A-A-1192A (Type25)

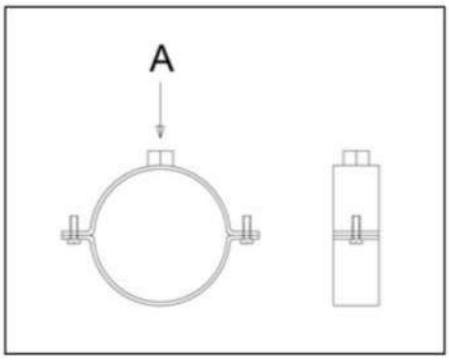
MAXIMUM TEMPERATURE: -20°C 110°C

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain.

Product Code	Nominal Pipe Size		Pipe OD	Range	Hanger Rod Size (mm)	Side Screw size	MAX LOAD
	In.	mm	(mm)	(mm)	(A)		(KG)
SE-ULNCL 22	½"	DN15	21.3	20-25	M10	M6	460
SE-ULNCL 27	¾"	DN20	26.7	26-30	M10	M6	460
SE-ULNCL 34	1"	DN25	33.4	32-36	M10	M6	460
SE-ULNCL 42	1 ¼"	DN32	42.1	38-43	M10	M6	460
SE-ULNCL 48	1 ½"	DN40	48.2	47-51	M10	M6	460
SE-ULNCL 60	2"	DN50	60.3	60-64	M10	M6	460
SE-ULNCL 73	2 ½"	DN65	73.0	74-80	M10	M6	570
SE-ULNCL 89	3"	DN80	88.9	87-92	M10	M6	570

PIPE HANGER WITHOUT LINING



APPLICATION:

PIPE HANGER is recommended for non-insulated stationary pipe lines in either a horizontal or vertical position. It can be used for supporting pipes along with the roof as well as wall.

CONSTRUCTION:

PIPE HANGER consists of piece of mild steel shaped to wrap around the pipe, The selection of the PIPE CLAMP depends upon the temperature of piping system and load to be carried. Pipe hanger permits installation before and after pipe is placed.

MATERIAL:

Mild Steel. Also other materials can be provided on request.

APPROVALS:

Underwriter's Laboratories Listed (UL)
Factory Mutual (FM)
Manufacturers Standardization Society ANSI/MSS SP-58 & SP-69 (Type 58)
Federal Specification WW-H-171E & A-A-1192A (Type 25)

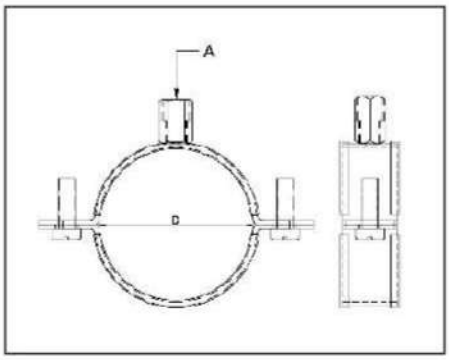
MAXIMUM TEMPERATURE: 343°c (650°F)

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain.

Product Code	Nominal Pipe Size		Pipe OD	Range	Hanger Rod Size (mm)	Side Screw size	MAX LOAD
	In.	mm	(mm)	(mm)	(A)		(KG)
SE-ULNCL 22	½"	DN15	21.3	20-25	M10	M6	460
SE-ULNCL 27	¾"	DN20	26.7	26-30	M10	M6	460
SE-ULNCL 34	1"	DN25	33.4	32-36	M10	M6	460
SE-ULNCL 42	1 ¼"	DN32	42.1	38-43	M10	M6	460
SE-ULNCL 48	1 ½"	DN40	48.2	47-51	M10	M6	460
SE-ULNCL 60	2"	DN50	60.3	60-64	M10	M6	460
SE-ULNCL 73	2 ½"	DN65	73.0	74-80	M10	M6	570
SE-ULNCL 89	3"	DN80	88.9	87-92	M10	M6	570

PIPE HANGER WITH EPDM LINING



APPLICATION:

PIPE HANGER WITH EPDM LINING is recommended for non-insulated stationary pipelines in a horizontal position. It can be used for supporting pipes along with the roof.

CONSTRUCTION:

PIPE HANGER with EPDM lining consists of piece of mild steel shaped to wrap around the pipe. The selection of the proper PIPE HANGER WITH EPDM LINING depends upon the temperature of the piping system and load to be carried. Permits installation before and after pipe is in place. Reduces noise upto 18 dB.

MATERIAL:

Mild Steel. Also other materials can be provided on request

APPROVALS:

Manufacturers Standardization Society ANSI/MSS SP-58 & SP-69 (Type 12)
Federal Specification WW-H-171E & A-A-1192A (Type25)

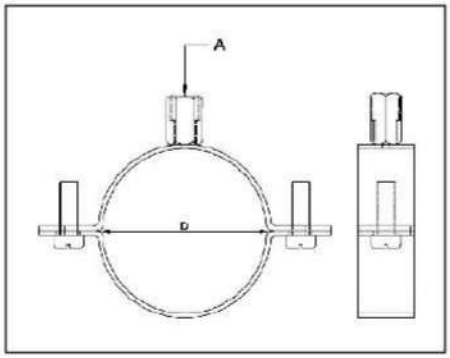
MAXIMUM TEMPERATURE: -20°C - 110°C

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain

Product Code	Nominal Pipe Size		Pipe OD	Range	Nut Size	Side Screw size	MAX LOAD
	In.	mm	(mm)	(mm)	(A)		(KG)
SE-NCL 17	3/8"	DN10	17.1	15-19	M8 X M10	M6	450
SE-NCL 22	½"	DN15	21.3	20-25	M8 X M10	M6	450
SE-NCL 27	¾"	DN20	26.7	26-30	M8 X M10	M6	450
SE-NCL 34	1"	DN25	33.4	32-36	M8 X M10	M6	450
SE-NCL 42	1 ¼"	DN32	42.1	38-43	M8 X M10	M6	450
SE-NCL 48	1 ½"	DN40	48.2	47-51	M8 X M10	M6	450
SE-NCL 54		-	54	53-58	M8 X M10	M6	450
SE-NCL 60	2"	DN50	60.3	60-64	M8 X M10	M6	450
SE-NCL 63		-	63	63-66	M8 X M10	M6	450
SE-NCL 70		-	70	68-72	M8 X M10	M6	450
SE-NCL 73	2 ½"	DN65	73.0	74-80	M8 X M10	M6	600
SE-NCL 83		-	83	81-86	M8 X M10	M6	600
SE-NCL 89	3"	DN80	88.9	87-92	M8 X M10	M6	600
SE-NCL 102	3 ½"	DN90	101.6	99-105	M8 X M10	M6	600
SE-NCL 110		-	110	107-112	M8 X M10	M6	600
SE-NCL 114	4"	DN100	114.3	113-118	M8 X M10	M6	600
SE-NCL 125		-	125	125-130	M8 X M10	M6	600
SE-NCL 133		-	133	131-137	M8 X M10	M6	600
SE-NCL 141	5"	DN125	141.3	138-142	M8 X M10	M6	600
SE-NCL 150		-	150	148-153	M8 X M10	M6	600
SE-NCL 160		-	160	159-166	M8 X M10	M6	600
SE-NCL 168	6"	DN150	168.3	168-172	M8 X M10	M8	600
SE-NCL 210		-	210	200-212	M8 X M10	M8	950
SE-NCL 219	8"	DN200	219.1	215-220	M8 X M10	M8	950
SE-NCL 273	10"	DN250	273.0	269-274	M8 X M10	M8	950
SE-NCL 323	12"	DN300	323.8	313-318	M8 X M10	M8	1200

PIPE HANGER



APPLICATION:

PIPE HANGER WITH EPDM LINING is recommended for non-insulated stationary pipelines in a horizontal position. It can be used for supporting pipes along with the roof.

CONSTRUCTION:

PIPE HANGER with EPDM lining consists of piece of mild steel shaped to wrap around the pipe. The selection of the proper PIPE HANGER WITH EPDM LINING depends upon the temperature of the piping system and load to be carried. Permits installation before and after pipe is in place. Reduces noise upto 18 dB.

MATERIAL:

Mild Steel. Also other materials can be provided on request

APPROVALS:

Manufacturers Standardization Society ANSI/MSS SP-58 & SP-69 (Type 12)
Federal Specification WW-H-171E & A-A-1192A (Type25)

MAXIMUM TEMPERATURE: -20°C - 110°C

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain

Product Code	Nominal Pipe Size		Pipe OD	Range	Nut Size	Side Screw size	MAX LOAD
	In.	mm	(mm)	(mm)	(A)		(KG)
SE-NCL 17	3/8"	DN10	17.1	15-19	M8 X M10	M6	450
SE-NCL 22	½"	DN15	21.3	20-25	M8 X M10	M6	450
SE-NCL 27	¾"	DN20	26.7	26-30	M8 X M10	M6	450
SE-NCL 34	1"	DN25	33.4	32-36	M8 X M10	M6	450
SE-NCL 42	1 ¼"	DN32	42.1	38-43	M8 X M10	M6	450
SE-NCL 48	1 ½"	DN40	48.2	47-51	M8 X M10	M6	450
SE-NCL 54		-	54	53-58	M8 X M10	M6	450
SE-NCL 60	2"	DN50	60.3	60-64	M8 X M10	M6	450
SE-NCL 63		-	63	63-66	M8 X M10	M6	450
SE-NCL 70		-	70	68-72	M8 X M10	M6	450
SE-NCL 73	2 ½"	DN65	73.0	74-80	M8 X M10	M6	600
SE-NCL 83		-	83	81-86	M8 X M10	M6	600
SE-NCL 89	3"	DN80	88.9	87-92	M8 X M10	M6	600
SE-NCL 102	3 ½"	DN90	101.6	99-105	M8 X M10	M6	600
SE-NCL 110		-	110	107-112	M8 X M10	M6	600
SE-NCL 114	4"	DN100	114.3	113-118	M8 X M10	M6	600
SE-NCL 125		-	125	125-130	M8 X M10	M6	600
SE-NCL 133		-	133	131-137	M8 X M10	M6	600
SE-NCL 141	5"	DN125	141.3	138-142	M8 X M10	M6	600
SE-NCL 150		-	150	148-153	M8 X M10	M6	600
SE-NCL 160		-	160	159-166	M8 X M10	M6	600
SE-NCL 168	6"	DN150	168.3	168-172	M8 X M10	M8	600
SE-NCL 210		-	210	200-212	M8 X M10	M8	950
SE-NCL 219	8"	DN200	219.1	215-220	M8 X M10	M8	950
SE-NCL 273	10"	DN250	273.0	269-274	M8 X M10	M8	950
SE-NCL 323	12"	DN300	323.8	313-318	M8 X M10	M8	1200

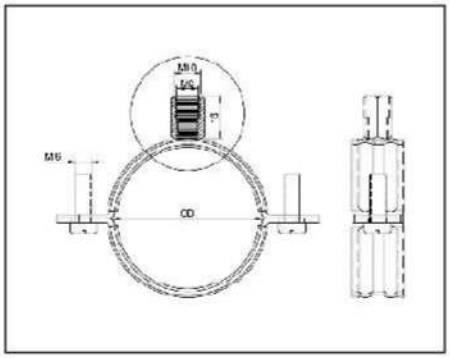
NOTE : Pipe Hanger of all Non Standard Sizes to fit upon Rubber Support Insert can be manufactured.

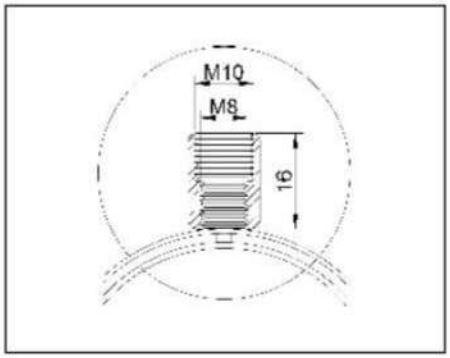
ABS = Acrylonitrile-Butadiene-Styrene
UPVC = unplasticized polyvinyl chloride
pe = Polyethylene

SELECTION TABLE FOR DIFFERENT TYPES OF PIPES

NPS	Pipe outside	uPVC/ PE	ABS	Copper
(in)	Dia(mm)	(mm)	(mm)	(mm)
-	16	-	-	15,18
1/2"	22	20	DN15(21.4)	22
3/4"	28	25	DN20(26.8)	24, 28
1"	35	32, 38	DN25(33.6)	35
1 1/4"	42	40, 43	DN32(42.3)	42
1 1/2"	48	45	DN40(48.3)	-
-	-	54	-	54
2"	60	60	DN50(60.4)	64
-	-	-	-	-
-	-	70		67, 70
2 1/2"	75	75	DN65(75.4)	76
-	-	83	-	80
3"	90	90	-	-
-	-	102	DN80(88.9)	102, 105
-	-	110	-	108
4"	115	115	DN100(114.3)	-
-	-	125	-	125
-	-	135	-	-
5"	140	140	DN125(121.4)	-
-	-	152	-	-
-	-	160	-	159
6"	168	-	DN150(168.3)	167
-	-	200	-	206
8"	219	220, 225	DN200(225.0)	-
-	-	250	DN225(250.4)	-
-	-	-	DN300(315.5)	-

PIPE HANGER – HEAVY DUTY





APPLICATION:

HEAVY DUTY PIPE HANGER is recommended for non-insulated stationary heavy pipe lines in either a horizontal or vertical position. It can be used forsupporting pipes along with roof as well as along wall. it is Used where loads to be carried are larger in magnitude.

CONSTRUCTION:

HEAVY DUTY PIPE HANGER consists of piece of mild steel shaped to wrap around the pipe. Quick - Locking permits simple and fast installation. Large opening angles for easy insertion of the pipes. Clamping range without gaps. Reduces noise upto 18 dB.

MATERIAL:

Mild Steel. Also other materials can be provided on request

APPROVALS:

Manufacturers Standardization Society ANSI/MSS SP-58 & SP-69(Type 12)
Federal Specification WW-H-171E & A-A-1192A (Type25)

MAXIMUM TEMPERATURE: -20°C - 110°C

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain.

Product Code	Nominal Pipe Size		Pipe OD	Range	Nut Size	Side Screw Size	MAX LOAD
	In.	mm	(mm)	(mm)	(mm)		(KG)
SE-HNCL 17	3/8"	DN10	17.1	15-19	M8 X M10	M6	500
SE-HNCL 22	1/2"	DN15	21.3	20-25	M8 X M10	M6	500
SE-HNCL 27	3/4"	DN20	26.7	26-30	M8 X M10	M6	500
SE-HNCL 34	1"	DN25	33.4	32-36	M8 X M10	M6	500
SE-HNCL 42	1 ¼"	DN32	42.1	38-43	M8 X M10	M6	500
SE-HNCL 48	1 1/2"	DN40	48.2	47-51	M8 X M10	M6	500
SE-HNCL 54	-		54	53-58	M8 X M10	M6	500
SE-HNCL 60	2"	DN50	60.3	60-64	M8 X M10	M6	500
SE-HNCL 63	-		63	63-66	M8 X M10	M6	550
SE-HNCL 70	-		70	68-72	M8 X M10	M6	550
SE-HNCL 73	2 ½"	DN65	73.0	74-80	M8 X M10	M6	700
SE-HNCL 83	-		83	81-86	M8 X M10	M6	700
SE-HNCL 89	3"	DN80	88.9	87-92	M8 X M10	M6	700
SE-HNCL 102	3 ½"	DN90	101.6	99-105	M8 X M10	M6	700
SE-HNCL 110	-		110	107-112	M8 X M10	M6	700
SE-HNCL 114	4"	DN100	114.3	113-118	M8 X M10	M6	700
SE-HNCL 125	-		125	125-130	M8 X M10	M6	700
SE-HNCL 133	-		133	131-137	M8 X M10	M6	700
SE-HNCL 141	5"	DN125	141.3	138-142	M8 X M10	M6	700

EASY FIX PIPE HANGER WITH EPDM LINING

APPLICATION:

PIPE HANGER WITH EPDM LINING is recommended for non-insulated stationary pipelines in a horizontal position. It can be used for supporting pipes along roof, Where Quick installation is required.

CONSTRUCTION:

PIPE HANGER with EPDM lining consists of piece of carbon steel shaped to wrap around the pipe, made from shaped carbon steel plate. The selectionof the proper PIPE HANGER WITH EPDM LINING depends upon the temperature of the piping system and load to be carried. Permits installation before and after pipe is in place. Reduces noise upto 18 dB.

MATERIAL:

Mild Steel. Also other materials can be provided on request

APPROVALS:

Federal Specification WW-H-171E & A-A-1192A (Type25)

MAXIMUM TEMPERATURE: -20°C - 110°C

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain

Product Code	Nominal Pipe Size		Pipe OD	Range	Nut Size	Side Screw size	MAX LOAD
	In.	mm	(mm)	(mm)			(KG)
SE-NCL 17	3/8"	DN10	17.1	15-19	M8 X M10	M6	450
SE-NCL 22	½"	DN15	21.3	20-25	M8 X M10	M6	450
SE-NCL 27	¾"	DN20	26.7	26-30	M8 X M10	M6	450
SE-NCL 34	1"	DN25	33.4	32-36	M8 X M10	M6	450
SE-NCL 42	1 ¼"	DN32	42.1	38-43	M8 X M10	M6	450
SE-NCL 48	1 ½"	DN40	48.2	47-51	M8 X M10	M6	450
SE-NCL 54		-	54	53-58	M8 X M10	M6	450
SE-NCL 60	2"	DN50	60.3	60-64	M8 X M10	M6	450
SE-NCL 63		-	63	63-66	M8 X M10	M6	450
SE-NCL 70		-	70	68-72	M8 X M10	M6	450
SE-NCL 73	2 ½"	DN65	73.0	74-80	M8 X M10	M6	600
SE-NCL 83		-	83	81-86	M8 X M10	M6	600
SE-NCL 89	3"	DN80	88.9	87-92	M8 X M10	M6	600
SE-NCL 102	3 ½"	DN90	101.6	99-105	M8 X M10	M6	600
SE-NCL 110		-	110	107-112	M8 X M10	M6	600
SE-NCL 114	4"	DN100	114.3	113-118	M8 X M10	M6	600
SE-NCL 125		-	125	125-130	M8 X M10	M6	600
SE-NCL 133		-	133	131-137	M8 X M10	M6	600
SE-NCL 141	5"	DN125	141.3	138-142	M8 X M10	M6	600
SE-NCL 150		-	150	148-153	M8 X M10	M6	600
SE-NCL 160		-	160	159-166	M8 X M10	M6	600
SE-NCL 168	6"	DN150	168.3	168-172	M8 X M10	M8	600
SE-NCL 210		-	210	200-212	M8 X M10	M8	950
SE-NCL 219	8"	DN200	219.1	215-220	M8 X M10	M8	950
SE-NCL 273	10"	DN250	273.0	269-274	M8 X M10	M8	950
SE-NCL 323	12"	DN300	323.8	313-318	M8 X M10	M8	1200

PIPE HANGER WITH LINING –LIGHT DUTY WITH STUD

APPLICATION:

PIPE HANGER WITH EPDM LINING is recommended for non-insulatedstationary pipelines in a horizontal position. It can be used for supporting pipes along with roof.

CONSTRUCTION:

PIPE HANGER with EPDM lining consists of piece of mild steel shaped to wrap around the pipe. The selection of the proper PIPE HANGER WITH EPDM LINING depends upon the temperature of the piping system and load to be carried. Permits installation before and after pipe is in place. Reduces noise upto 18 dB.

MATERIAL:

Mild Steel. Also other materials can be provided on request

APPROVALS:

Manufacturers Standardization Society ANSI/MSS SP-58 & SP-69 (Type 12)
Federal Specification WW-H-171E & A-A-1192A (Type25)

MAXIMUM TEMPERATURE: -20°C - 110°C

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain

Product Code	Pipe Size	Range	Thickness x Width	Side Screw	Top Nut	Hanger Bolt	Plastic Plug
SE-LDNCL 22	1/2"	20-24	1.0 x 20	M5 x 15	M 8	M8 x 80	S10 x 50
SE-LDNCL 27	3/4"	25-28	1.0 x 20	M5 x 15	M 8	M8 x 80	S10 x 50
SE-LDNCL 34	1"	23-35	1.0 x 20	M5 x 15	M 8	M8 x 80	S10 x 50
SE-LDNCL 42	1 1/4"	39-46	1.2 x 20	M6 x 20	M 8	M8 x 80	S10 x 50
SE-LDNCL 48	1 1/2"	48-53	1.2 x 20	M6 x 20	M 8	M8 x 80	S10 x 50
SE-LDNCL 60	2"	59-66	1.2 x 20	M6 x 20	M 8	M8 x 80	S10 x 50
SE-LDNCL 73	2 1/2"	74-80	1.5 x 20	M6 x 25	M8 x M10	M8 x 80	S10 x 50
SE-LDNCL 89	3"	87-94	1.5 x 20	M6 x 25	M8 x M10	M8 x 80	S10 x 50
SE-LDNCL 114	4"	107-115	1.5 x 20	M6 x 30	M8 x M10	M8 x 100	S10 x 50
SE-LDNCL 141	5"	135-143	2.0 x 25	M6 x 30	M10	M10 x 100	S14 x 75
SE-LDNCL 168	6"	162-170	2.0 x 25	M6 x 30	M10	M10 x 100	S14 x 75
SE-LDNCL 219	8"	207-219	2.0 x 25	M6 x 30	M10	M10 x 100	S14 x 75

PIPE HANGER WITHOUT LINING – LIGHT DUTY WITH STUD

APPLICATION:

PIPE HANGER is recommended for non-insulated stationary pipe lines in either a horizontal or vertical position. It can be used for supporting pipes along with roof as well as wall.

CONSTRUCTION:

PIPE HANGER consists of piece of mild steel shaped to wrap around the pipe. The selection of the proper 3-Bolt PIPE CLAMP depends upon the temperature of the piping system and load to be carried. Permits installation before and after pipe is in place.

MATERIAL:

Mild Steel. Also other materials can be provided on request

APPROVALS:

Manufacturers Standardization Society ANSI/MSS SP-58 & SP-69 (Type 12) Federal Specification WW-H-171E & A-A-1192A (Type25)

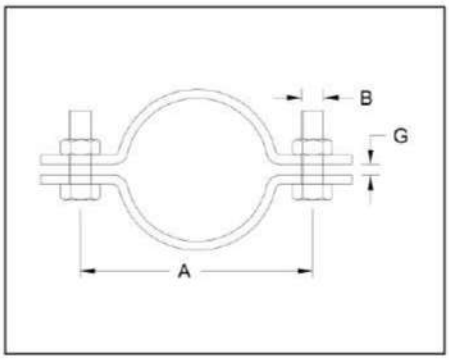
MAXIMUM TEMPERATURE: 343°C (650°F)

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain

Product Code	Pipe Size	Range	Thickness x Width	Side Screw	Top Nut	Hanger Bolt	Plastic Plug
SE-LDNCL 22	1/2"	20-24	1.0 x 20	M5 x 15	M 8	M8 x 80	S10 x 50
SE-LDNCL 27	3/4"	25-28	1.0 x 20	M5 x 15	M 8	M8 x 80	S10 x 50
SE-LDNCL 34	1"	23-35	1.0 x 20	M5 x 15	M 8	M8 x 80	S10 x 50
SE-LDNCL 42	1 1/4"	39-46	1.2 x 20	M6 x 20	M 8	M8 x 80	S10 x 50
SE-LDNCL 48	1 1/2"	48-53	1.2 x 20	M6 x 20	M 8	M8 x 80	S10 x 50
SE-LDNCL 60	2"	59-66	1.2 x 20	M6 x 20	M 8	M8 x 80	S10 x 50
SE-LDNCL 73	2 1/2"	74-80	1.5 x 20	M6 x 25	M8 x M10	M8 x 80	S10 x 50
SE-LDNCL 89	3"	87-94	1.5 x 20	M6 x 25	M8 x M10	M8 x 80	S10 x 50
SE-LDNCL 114	4"	107-115	1.5 x 20	M6 x 30	M8 x M10	M8 x 100	S10 x 50
SE-LDNCL 141	5"	135-143	2.0 x 25	M6 x 30	M10	M10 x 100	S14 x 75
SE-LDNCL 168	6"	162-170	2.0 x 25	M6 x 30	M10	M10 x 100	S14 x 75
SE-LDNCL 219	8"	207-219	2.0 x 25	M6 x 30	M10	M10 x 100	S14 x 75

TWO BOLT PIPE CLAMPS



APPLICATION:

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

CONSTRUCTION:

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

MATERIAL:

Mild Steel. Also other materials can be provided on request

APPROVALS:

Manufacturers Standardization Society ANSI/MSS SP-58 & SP-69(Type 4)
Federal Specification WW-H-171E & A-A-1192A (Type 4)

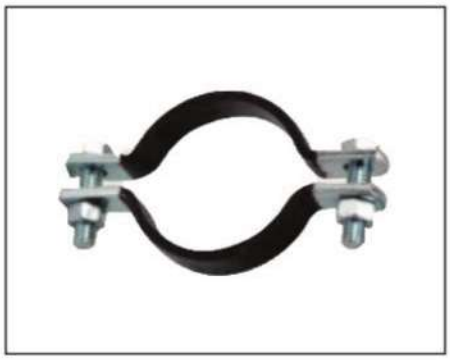
MAXIMUM TEMPERATURE: 343°C (650°F)

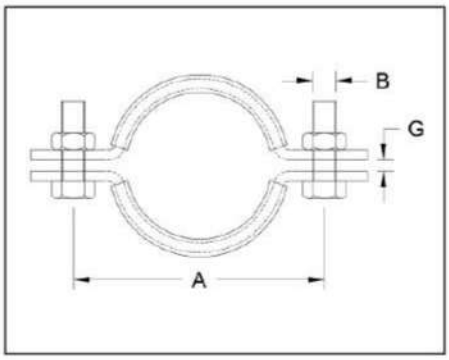
FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain.

Product Code	Nominal Pipe Size		DIMESNSIONS(mm)				
			Pipe OD	LENGTH	BOLT SIZE	GAP G	MAX LOAD
	In.	mm	(mm)				(kg)
SE-TBC 22	½''	DN15	21.3	200	M10	12	170
SE-TBC 27	¾''	DN20	26.7	210	M10	12	170
SE-TBC 34	1''	DN25	33.4	230	M10	12	170
SE-TBC 42	1 ¼''	DN32	42.1	260	M10	12	170
SE-TBC 48	1 ½''	DN40	48.2	260	M10	12	170
SE-TBC 60	2''	DN50	60.3	260	M10	16	170
SE- TBC 73	2 ½''	DN65	73.0	290	M12	16	400
SE- TBC 89	3''	DN80	88.9	290	M12	16	400
SE- TBC 102	3 ½''	DN90	101.6	330	M12	16	400
SE- TBC 114	4''	DN100	114.3	330	M12	19	400
SE- TBC 141	5''	DN125	141.3	350	M16	19	600
SE- TBC 168	6''	DN150	168.3	380	M16	22	600
SE- TBC 219	8''	DN200	219.1	470	M16	25	1100
SE- TBC 273	10''	DN250	273.0	520	M16	25	1200
SE- TBC 323	12''	DN300	323.8	580	M20	25	1500
SE- TBC 356	14''	DN350	355.6	610	M20	28	1500
SE- TBC 406	16''	DN400	406.4	660	M20	28	2200
SE- TBC 457	18''	DN450	457.2	710	M20	32	2200
SE- TBC 508	20''	DN500	508.0	760	M20	35	2200
SE- TBC 610	24''	DN600	609.6	880	M20	42	2200

TWO BOLT PIPE CLAMP WITH LINING





APPLICATION:

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

CONSTRUCTION:

RISER PIPE CLAMPS consists of two mild steel flat bars bent to shape and held together by two bolts. Reduces noise upto 18 dB.

MATERIAL:

Mild Steel. Also other materials can be provided on request

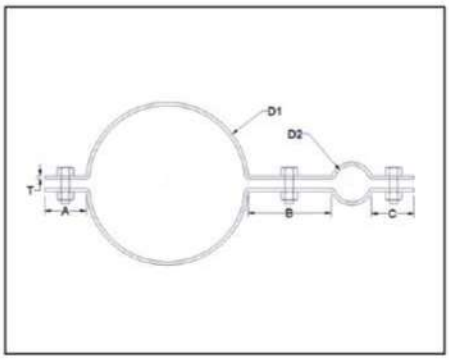
MAXIMUM TEMPERATURE: -20°C to 110°C

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain.

Product Code	Nominal Pipe Size		DIMESNSIONS(mm)				
			Pipe OD	LENGTH	BOLT SIZE	GAP G	MAX LOAD
	In.	mm	(mm)				(kg)
SE-TBC 22	½''	DN15	21.3	200	M10	12	150
SE-TBC 27	¾''	DN20	26.7	210	M10	12	150
SE-TBC 34	1''	DN25	33.4	230	M10	12	150
SE-TBC 42	1 ¼''	DN32	42.1	260	M10	12	150
SE-TBC 48	1 ½''	DN40	48.2	260	M10	12	150
SE-TBC 60	2''	DN50	60.3	260	M10	16	150
SE- TBC 73	2 ½''	DN65	73.0	290	M12	16	350
SE- TBC 89	3''	DN80	88.9	290	M12	16	350
SE- TBC 102	3 ½''	DN90	101.6	330	M12	16	350
SE- TBC 114	4''	DN100	114.3	330	M12	19	350
SE- TBC 141	5''	DN125	141.3	350	M16	19	500
SE- TBC 168	6''	DN150	168.3	380	M16	22	500
SE- TBC 219	8''	DN200	219.1	470	M16	25	1000
SE- TBC 273	10''	DN250	273.0	520	M16	25	1000
SE- TBC 323	12''	DN300	323.8	580	M20	25	1200
SE- TBC 356	14''	DN350	355.6	610	M20	28	1200
SE- TBC 406	16''	DN400	406.4	660	M20	28	1800
SE- TBC 457	18''	DN450	457.2	710	M20	32	1800
SE- TBC 508	20''	DN500	508.0	760	M20	35	1800
SE- TBC 610	24''	DN600	609.6	880	M20	42	1800

DOUBLE PIPE HANGER WITH EPDM LINING



APPLICATION:

DOUBLE PIPE HANGER WITH EPDM LINING is recommended for non-insulated stationary pipelines in a horizontal position. It can be used for supporting pipes along with the roof.

CONSTRUCTION:

DOUBLE PIPE HANGER with EPDM lining consists of piece mild steel shaped to wrap around the pipe. The selection of the proper PIPE HANGER WITH EPDM LINING depends upon the temperature of the piping system and load to be carried.Permits installation before and after pipe is in place. Reduces noise upto 18 dB.

MATERIAL:

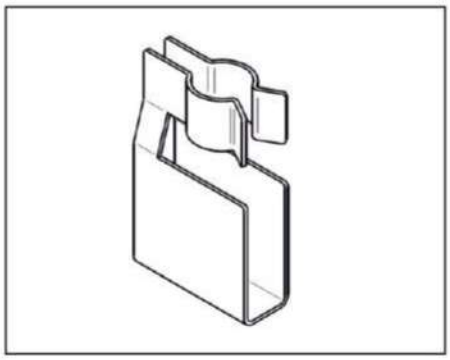
Mild Steel. Also other materials can be provided on request

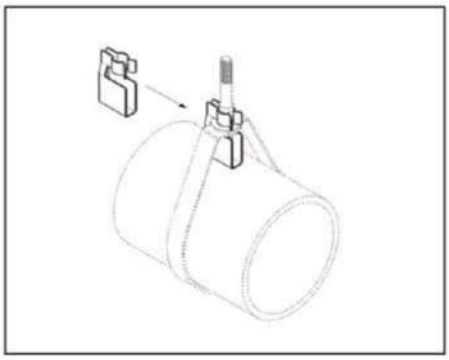
MAXIMUM TEMPERATURE: -20°C 150°C

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain .

Product Code	Pipe Size		Dimensions					Max Load
	DN	Inch	D1	D2	A	B	C	(kg)
SE-DC 114	DN 100	4"	114	53	50	100	50	400
SE-DC 219	DN 200	8"	219	53	50	100	50	630
SE-DC 323	DN 300	12"	323	53	50	100	50	950





APPLICATION:

DOUBLE PIPE HANGER WITH EPDM LINING is recommended for non-insulated statio -nary pipelines in a horizontal position. It can be used for supporting pipes along with the roof.

CONSTRUCTION:

Designed to be used in conjunction with Sprinkler Hanger to restrict the upward movement of piping as it occurs during sprinkler head activation or earthquake type activity. the surge restrainer is easily and efficiently installed by snapping into a locking position on the sprinkler hanger.

MATERIAL:

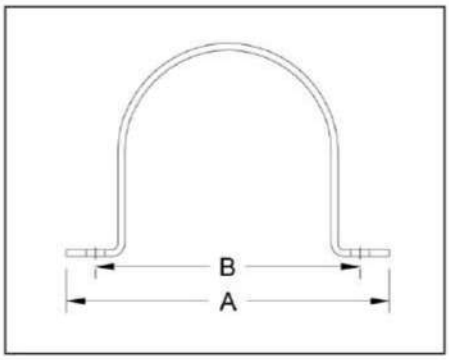
Mild Steel.

SIZE RANGE: 3/4" to 2" .

FINISH AVAILABLE:

Pre-Galvanized, Hot Dip Galvanized, Electro-Galvanized.

U STRAP



UL LISTED

FM APPROVED

APPLICATION:

A Standard Pipe Strap is 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:

A Standard Pipe Strap consists of a piece of mild steel shaped to hold the pipe down to walls or ceilings.

MATERIAL:

Mild Steel. Also other materials can be provided on request

APPROVALS:

Underwriter's Laboratories Listed (UL)
Factory Mutual Engineering Approved (FM)
Manufacturers Standardization Society ANSI/MSS SP-58 & SP-69 (Type 26)
Federal Specification WW-H-171E (Type 26) & A-A-1192A (Type 26)

MAXIMUM TEMPERATURE: 343°C (650°F)

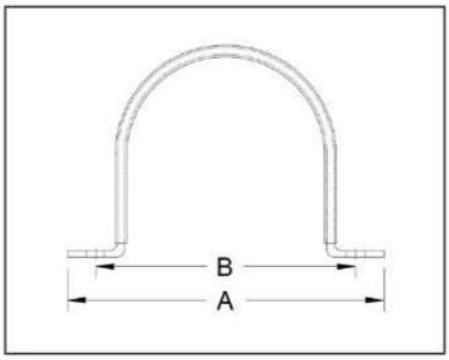
FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Epoxy, Plain

Product Code	Nominal Pipe Size		Pipe OD (mm)	Hanger Dimension (mm)		Bolt Size (mm)	MAX LOAD (KG)
	In.	mm		Overall dimension A	Distance Between Two Bolt B		
SE-US 22	½"	DN15	21.3	76	51	M8	500
SE-US 27	¾"	DN20	26.7	82	57	M8	500
SE-US 34	1"	DN25	33.4	89	64	M8	500
SE-US 42	1 ¼"	DN32	42.1	96	71	M8	500
SE-US 48	1 ½"	DN40	48.2	102	77	M8	500
SE-US 54	-		54	108	83	M8	500
SE-US 60	2"	DN50	60.3	114	89	M8	500
SE-US 67	-		67	121	96	M8	500
SE-US 73	2 ½"	DN65	73.0	145	113	M8	600
SE-US 82	-		82	152	120	M8	600
SE-US 89	3"	DN80	88.9	160	128	M8	600
SE-US 102	3 ½"	DN90	101.6	170	138	M8	600
SE-US 108	-		108	178	146	M8	600
SE-US 114	4"	DN100	114.3	185	153	M8	600
SE-US 126	-		126	196	164	M8	600
SE-US 141	5"	DN125	141.3	210	178	M10	600
SE-US 148	-		148	218	186	M10	600
SE-US 155	-		155	225	193	M10	600
SE-US 168	6"	DN150	168.3	237	205	M10	600
SE-US 179	-		179	249	217	M10	600
SE-US 190	-		190	260	228	M10	800
SE-US 205	-		205	275	243	M10	800
SE-US 219	8"	DN200	219.1	289	257	M10	800
SE-US 230	-		230	300	268	M10	800
SE-US 241	-		241	332	291	M12	1250
SE-US 263	-		263	354	313	M12	1250
SE-US 273	10"	DN250	273.0	364	323	M18	1250
SE-US 295	-		295	386	345	M18	1250
SE-US 323	12"	DN300	323.8	417	376	M18	1250
SE-US 356	14"	DN350	355.6	447	409	M18	1800
SE-US 374	-		374	465	427	M18	1800
SE-US 406	16"	DN400	406.4	497	459	M18	1800
SE US 432	-		432	523	485	M18	1800
SE-US 457	18"	DN450	457.2	547	509	M18	1800
SE-US 482	-		482	573	535	M18	1800
SE-US 508	20"	DN500	508.2	599	561	M18	1800
SE-US 533	-		533	624	586	M18	1800
SE-US 559	-		559	650	612	M18	1800
SE-US 583	-		583	674	636	M18	1800
SE-US 610	24"	DN600	609.6	701	663	M18	1800
SE-US 658	-		658	766	721	M18	2300
SE-US 690	-		690	798	753	M18	2300
SE-US 760	-		760	868	823	M18	2300
SE-US 863	-		863	971	926	M18	2300
SE-US 918	-		918	1026	981	M18	2300

NOTE : U Strap of all Non Standard Sizes to fit upon Rubber Support Insert can be manufactured.

U STRAP WITH LINING



APPLICATION:

A Standard Pipe Strap with lining is 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:

A Standard Pipe Strap consists of a single piece of mild steel shaped to hold the pipe down to walls or ceilings. Reduces noise upto 18 dB.

MATERIAL:

Mild Steel. Also other materials can be provided on request.

APPROVALS:

Manufacturers Standardization Society ANSI/MSS SP-58 & SP-69
Federal Specification WW-H-171E & A-A-1192A

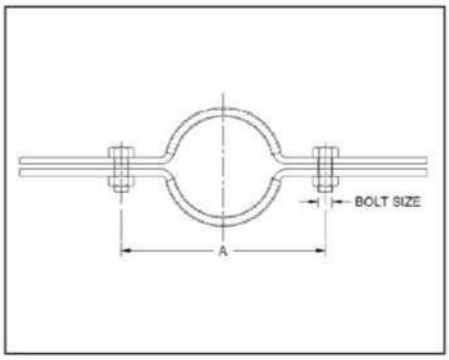
MAXIMUM TEMPERATURE: -20°C to 110°C

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain.

Product Code	Nominal Pipe Size		Pipe OD (mm)	Hanger Dimension (mm)		Bolt Size (mm)	MAX LOAD (KG)
	In.	mm		Overall dimension A	Distance Between Two Bolt B		
SE-US 22	½"	DN15	21.3	76	51	M8	500
SE-US 27	¾"	DN20	26.7	82	57	M8	500
SE-US 34	1"	DN25	33.4	89	64	M8	500
SE-US 42	1 ¼"	DN32	42.1	96	71	M8	500
SE-US 48	1 ½"	DN40	48.2	102	77	M8	500
SE-US 54	-		54	108	83	M8	500
SE-US 60	2"	DN50	60.3	114	89	M8	500
SE-US 67	-		67	121	96	M8	500
SE-US 73	2 ½"	DN65	73.0	145	113	M8	600
SE-US 82	-		82	152	120	M8	600
SE-US 89	3"	DN80	88.9	160	128	M8	600
SE-US 102	3 ½"	DN90	101.6	170	138	M8	600
SE-US 108	-		108	178	146	M8	600
SE-US 114	4"	DN100	114.3	185	153	M8	600
SE-US 126	-		126	196	164	M8	600
SE-US 141	5"	DN125	141.3	210	178	M10	600
SE-US 148	-		148	218	186	M10	600
SE-US 155	-		155	225	193	M10	600
SE-US 168	6"	DN150	168.3	237	205	M10	600
SE-US 179	-		179	249	217	M10	600
SE-US 190	-		190	260	228	M10	800
SE-US 205	-		205	275	243	M10	800
SE-US 219	8"	DN200	219.1	289	257	M10	800
SE-US 230	-		230	300	268	M10	800
SE-US 241	-		241	332	291	M12	1250
SE-US 263	-		263	354	313	M12	1250
SE-US 273	10"	DN250	273.0	364	323	M18	1250
SE-US 295	-		295	386	345	M18	1250
SE-US 323	12"	DN300	323.8	417	376	M18	1250
SE-US 356	14"	DN350	355.6	447	409	M18	1800
SE-US 374	-		374	465	427	M18	1800
SE-US 406	16"	DN400	406.4	497	459	M18	1800
SE US 432	-		432	523	485	M18	1800
SE-US 457	18"	DN450	457.2	547	509	M18	1800
SE-US 482	-		482	573	535	M18	1800
SE-US 508	20"	DN500	508.2	599	561	M18	1800
SE-US 533	-		533	624	586	M18	1800
SE-US 559	-		559	650	612	M18	1800
SE-US 583	-		583	674	636	M18	1800
SE-US 610	24"	DN600	609.6	701	663	M18	1800
SE-US 658	-		658	766	721	M18	2300
SE-US 690	-		690	798	753	M18	2300
SE-US 760	-		760	868	823	M18	2300
SE-US 863	-		863	971	926	M18	2300
SE-US 918	-		918	1026	981	M18	2300

RISER CLAMP WITH LINING



APPLICATION:

RISER CLAMPS WITH LINING are recommended for the support and/or restraint of vertical steel pipes. A RISER CLAMP with lining is 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.

CONSTRUCTION:

RISER CLAMPS WITH LINING consists of two mild 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. Reduces noise upto 18dB.

MATERIAL:

Mild Steel. Also other materials can be provided on request

APPROVALS:

Manufacturers Standardization Society ANSI/MSS SP-58 & SP-69(Type 8)
Federal Specification WW-H-171E & A-A-1192A (Type 8)

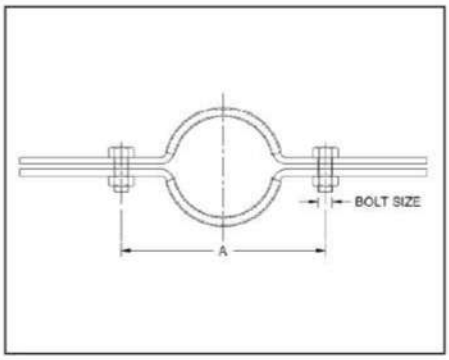
MAXIMUM TEMPERATURE: -20°C to 110°C

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain.

Product Code	Nominal Pipe Size		Pipe OD	Length between Hole centre	Bolt Size	MAX LOAD
	In.	mm	(mm)	(mm)		(KG)
SE – RC 22	½"	DN15	21.3	57	M10	1250
SE – RC 27	¾"	DN20	26.7	68	M10	1250
SE – RC 34	1"	DN25	33.4	76	M10	1250
SE – RC 42	1 ¼"	DN32	42.1	90	M10	1250
SE – RC 48	1 ½"	DN40	48.2	110	M10	1250
SE – RC 60	2"	DN50	60.3	130	M10	1850
SE – RC 73	2 ½"	DN65	73.0	142	M12	1850
SE – RC 89	3"	DN80	88.9	161	M12	2250
SE – RC 114	4"	DN100	114.3	190	M12	3600
SE – RC 168	6"	DN150	168.3	258	M16	4500
SE – RC 219	8"	DN200	219.1	333	M16	4500
SE – RC 273	10"	DN250	273.0	409	M16	5800
SE – RC 323	12"	DN300	323.8	467	M20	7300
SE – RC 406	16"	DN400	406.4	583	M20	7300
SE – RC 508	20"	DN500	508.0	708	M20	13400
SE – RC 610	24"	DN600	609.6	833	M20	13400

RISER CLAMP WITH LINING



APPLICATION:

RISER CLAMPS WITH LINING are recommended for the support and/or restraint of vertical steel pipes. A RISER CLAMP with lining is 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.

CONSTRUCTION:

RISER CLAMPS WITH LINING consists of two mild 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. Reduces noise upto 18dB.

MATERIAL:

Mild Steel. Also other materials can be provided on request

APPROVALS:

Manufacturers Standardization Society ANSI/MSS SP-58 & SP-69(Type 8)
Federal Specification WW-H-171E & A-A-1192A (Type 8)

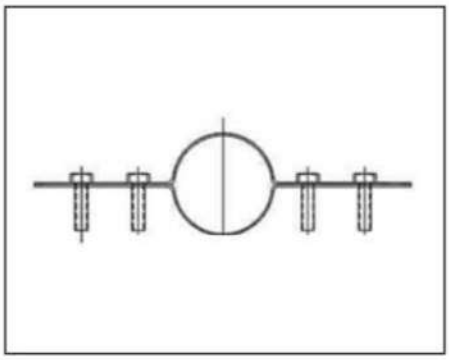
MAXIMUM TEMPERATURE: -20°C to 110°C

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain.

Product Code	Nominal Pipe Size		Pipe OD	Length between Hole centre	Bolt Size	MAX LOAD
	In.	mm	(mm)	(mm)		(KG)
SE – RC 22	½"	DN15	21.3	57	M10	1250
SE – RC 27	¾"	DN20	26.7	68	M10	1250
SE – RC 34	1"	DN25	33.4	76	M10	1250
SE – RC 42	1 ¼"	DN32	42.1	90	M10	1250
SE – RC 48	1 ½"	DN40	48.2	110	M10	1250
SE – RC 60	2"	DN50	60.3	130	M10	1850
SE – RC 73	2 ½"	DN65	73.0	142	M12	1850
SE – RC 89	3"	DN80	88.9	161	M12	2250
SE – RC 114	4"	DN100	114.3	190	M12	3600
SE – RC 168	6"	DN150	168.3	258	M16	4500
SE – RC 219	8"	DN200	219.1	333	M16	4500
SE – RC 273	10"	DN250	273.0	409	M16	5800
SE – RC 323	12"	DN300	323.8	467	M20	7300
SE – RC 406	16"	DN400	406.4	583	M20	7300
SE – RC 508	20"	DN500	508.0	708	M20	13400
SE – RC 610	24"	DN600	609.6	833	M20	13400

RISER CLAMP – FOUR BOLTS



APPLICATION:

FOUR BOLT RISER CLAMPS are recommended for the support and/or restraint of more heavy vertical steel pipes. A RISER CLAMP with four bolts is 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.

CONSTRUCTION:

RISER CLAMPS WITH FOUR BOLTS consists of two mild steel flat bars bent to shape and held together by four bolts.

MATERIAL:

Mild Steel. Also other materials can be provided on request

APPROVALS:

Manufacturers Standardization Society ANSI/MSS SP-58 & SP-69
Federal Specification WW-H-171E & A-A-1192A

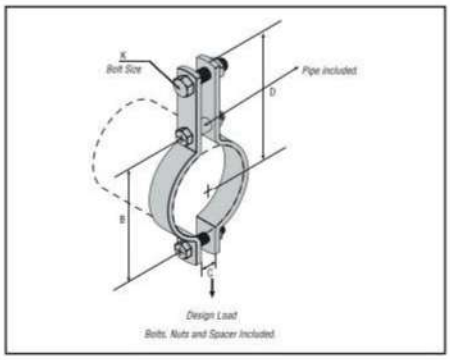
MAXIMUM TEMPERATURE: 343°C (650°F)

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Epoxy, Plain.

Product Code	Nominal Pipe Size		Pipe OD (mm)	DIMESNSIONS(mm)		MAX LOAD (KG)
	In.	mm		LENGHT	BOLT SIZE	
SE-RCT 22	½''	DN15	21.3	57	M10	1250
SE-RCT 27	¾''	DN20	26.7	68	M10	1250
SE-RCT 34	1''	DN25	33.4	76	M10	1250
SE-RCT 42	1 ¼''	DN32	42.1	90	M10	1250
SE-RCT 48	1 ½''	DN40	48.2	110	M10	1250
SE-RCT 60	2''	DN50	60.3	130	M10	1850
SE-RCT 73	2 ½''	DN65	73.0	142	M12	1850
SE-RCT 89	3''	DN80	88.9	161	M12	2250
SE-RCT 102	3 ½''	DN90	101.6	170	M12	2250
SE-RCT 114	4''	DN100	114.3	190	M12	3600
SE-RCT 141	5''	DN125	141.3	224	M16	3600
SE-RCT 168	6''	DN150	168.3	258	M16	4500
SE-RCT 219	8''	DN200	219.1	333	M16	4500
SE-RCT 273	10''	DN250	273.0	409	M16	5800
SE-RCT 323	12''	DN300	323.8	467	M20	7300
SE-RCT 356	14''	DN350	355.6	519	M20	7300
SE-RCT 406	16''	DN400	406.4	571	M20	7300
SE-RCT 457	18''	DN450	457.2	710	M20	11000
SE-RCT 508	20''	DN500	508.0	760	M20	13400
SE-RCT 610	24''	DN600	609.6	833	M20	13400

THREE BOLT PIPE CLAMP



APPLICATION:

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

MATERIAL:

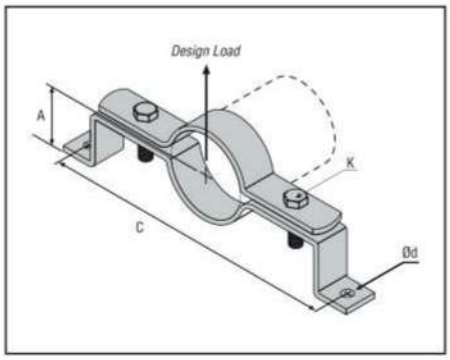
Mild Steel. Also other materials can be provided on request

FINISH AVAILABLE:

Electro-Galvanized / Hot dip Galvanized.

Product Code	Pipe Size		B	C	D	Bolt Size K	Design Load
	inch	mm	mm	mm	mm	mm	kN
SE-THBC-22	1/2"	15	58	7	96	M10	3.29
SE-THBC-27	3/4"	20	66	7	104	M10	3.29
SE-THBC-34	1"	25	72	7	110	M10	3.29
SE-THBC-42	1 1/4"	32	76	7	120	M12	3.29
SE-THBC-48	1 1/2"	40	88	7	126	M12	5.34
SE-THBC-60	2"	50	108	9	153	M12	5.34
SE-THBC-73	2 1/2"	65	122	9	167	M12	5.34
SE-THBC-89	3"	80	136	9	181	M16	5.34
SE-THBC-114	4"	100	178	11	237	M16	8.67
SE-THBC-140	5"	125	196	11	255	M20	8.67
SE-THBC-168	6"	150	222	11	281	M20	9.96
SE-THBC-219	8"	200	284	11	343	M20	9.96
SE-THBC-273	10"	250	348	14	421	M20	11.25
SE-THBC-323	12"	300	392	14	465	M24	11.25
SE-THBC-356	14"	350	444	14	517	M24	14.94
SE-THBC-406	16"	400	498	18	586	M24	14.94
SE-THBC-457	18"	450	580	18	668	M24	14.94
SE-THBC-508	20"	500	614	18	702	M27	15.65
SE-THBC-508	20"	500	614	18	702	M27	15.65

OFFSET PIPE CLAMPS



APPLICATION:

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

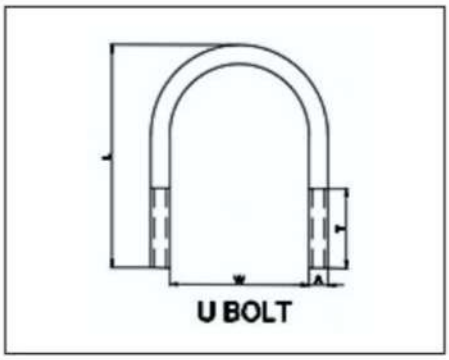
MATERIAL:

Mild Steel.

FINISH AVAILABLE:

Electro-Galvanized / Hot dip Galvanized.

Product Code	Pipe Size		Bolt Size K	A	Ød	C	Design Load
	inch	mm	mm	mm	mm	mm	kN
SE-OPC-22	1/2"	15	M10	63	11	152	0.84
SE-OPC-27	3/4"	20	M10	63	11	186	0.84
SE-OPC-34	1"	25	M10	67	11	192	0.84
SE-OPC-42	1 1/4"	32	M10	71	11	200	0.84
SE-OPC-48	1 1/2"	40	M10	75	11	209	0.84
SE-OPC-60	2"	50	M10	81	11	232	1.87
SE-OPC-73	2 1/2"	65	M10	87	11	267	1.87
SE-OPC-89	3"	80	M10	95	11	283	1.87
SE-OPC-114	4"	100	M12	108	14	317	2.71
SE-OPC-140	5"	125	M12	120	14	349	2.71
SE-OPC-168	6"	150	M16	135	18	419	3.87
SE-OPC-219	8"	200	M16	160	18	473	3.87
SE-OPC-273	10"	250	M16	197	18	584	3.87
SE-OPC-323	12"	300	M20	222	22	635	3.87



UL LISTED

APPLICATION:

U-Bolts are 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:

U-Bolt is provided with four standard hex nuts and has a longer straight threaded length.

MATERIAL:

Mild Steel. Also other materials can be provided on request

APPROVALS:

Manufacturers Standardization Society ANSI/MSS SP-58 & SP-69(Type 24)
Federal Specification WW-H-171E & A-A-1192A (Type 24)

MAXIMUM TEMPERATURE: 399°C (750°F)

FINISH AVAILABLE:

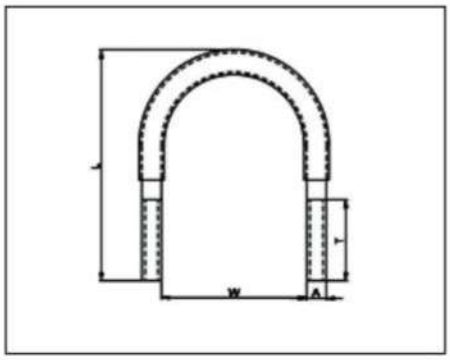
Electro-Galvanized, Hot Dip Galvanized, Plain

Product Code	Nominal Pipe Size		Pipe OD (mm)	Material Dimension (mm)			Bolt Size (mm)	MAX LOAD (KG)
	In.	mm		Rod Dia. W	Height L	Thread Length T	A	
SE-UB 22	½"	DN15	21.3	21	65	50	M10	550
SE-UB 27	¾"	DN20	26.7	27	77	50	M10	550
SE-UB 34	1"	DN25	33.4	34	85	50	M10	550
SE-UB 42	1 ¼"	DN32	42.1	43	93	50	M10	550
SE-UB 48	1 ½"	DN40	48.2	48	100	50	M10	550
SE-UB 60	2"	DN50	60.3	60	110	50	M10	550
SE-UB 73	2 ½"	DN65	73.0	76	127	50	M12	900
SE-UB 89	3"	DN80	88.9	89	140	50	M12	900
SE-UB 114	4"	DN100	114.3	115	165	50	M12	900
SE-UB 141	5"	DN125	141.3	140	190	50	M12	900
SE-UB 168	6"	DN150	168.3	168	220	50	M12	900
SE-UB 219	8"	DN200	219.1	219	295	75	M16	1900
SE-UB 273	10"	DN250	273.0	273	370	100	M20	3200
SE-UB 323	12"	DN300	323.8	324	420	100	M20	3200
SE-UB 356	14"	DN350	355.6	356	455	100	M20	3200
SE-UB 406	16"	DN400	406.4	406	505	100	M20	3200
SE-UB 457	18"	DN450	457.2	457	555	100	M24	4400
SE-UB 508	20"	DN500	508.0	508	605	100	M24	4400
SE-UB 610	24"	DN600	609.6	610	710	100	M24	4400

- Also can manufacture with different Rod size as per requirement.

NOTE : U bolt of all Non Standard Sizes to fit upon Rubber Support Insert can be manufactured.

U BOLT WITH LINING



APPLICATION:

U-BOLTS are used to secure piping to structural members. When the piping is below the structural member, 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:

U-BOLT is provided with four standard hex nuts and has a longer straight threaded length. Reduces noise upto 18dB.

MATERIALS:

Steel. Also other materials can also be provided on request

APPROVALS:

Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58 (Type 24)
Federal Specification WW-H-171E & A-A-1192A (Type 24)

MAXIMUM TEMPERATURE: 110°C

MINIMUM TEMPETRATURE: -20°C

FINISH AVAILABLE: Plain, Hot Dip Galvanized, Electro-Galvanized.

Product Code	Nominal Pipe Size		Pipe OD (mm)	Material Dimension (mm)			Bolt Size (mm)	MAX LOAD (KG)
	In.	mm		Rod Dia. W	Height L	Thread Length T	A	
SE-UBL 0.50	-	DN15	21.3	21	65	50	M10	550
SE-UBL 0.75	-	DN20	26.7	27	77	50	M10	550
SE-UBL 01	-	DN25	33.4	34	85	50	M10	550
SE-UBL 1.25	1	DN32	42.1	43	93	50	M10	550
SE-UBL 1.50	1	DN40	48.2	48	100	50	M10	550
SE-UBL 02	-	DN50	60.3	60	110	50	M10	550
SE-UBL 2.50	2	DN65	73.0	76	127	50	M12	900
SE-UBL 03	3"	DN80	88.9	89	140	50	M12	900
SE-UBL 04	4"	DN100	114.3	115	165	50	M12	900
SE-UBL 05	5"	DN125	141.3	140	190	50	M12	900
SE-UBL 06	6"	DN150	168.3	168	220	50	M12	900
SE-UBL 08	8"	DN200	219.1	219	295	75	M16	1900
SE-UBL 10	10"	DN250	273.0	273	370	100	M20	3200
SE-UBL 12	12"	DN300	323.8	324	420	100	M20	3200
SE-UBL 14	14"	DN350	355.6	356	455	100	M20	3200
SE-UBL 16	16"	DN400	406.4	406	505	100	M20	3200
SE-UBL 18	18"	DN450	457.2	457	555	100	M24	4400
SE-UBL 20	20"	DN500	508.0	508	605	100	M24	4400
SE-UBL 24	24"	DN600	609.6	610	710	100	M24	4400

HALF SADDLE

APPLICATION:

Recommended for support of standard conduit, cable and steel pipe on walls or sides of beams. Not recommended for use horizontally on ceilings, bottoms of beams and similar installations since the factor of safety is greatly reduced when so used.

CONSTRUCTION:

HALF SADDLE consists of single piece of mild steel shaped to proper configuration as shown in above diagram.

MATERIALS:

Mild Steel. Also other materials can be provided on request

APPROVALS:

Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58 (Type 24)
Federal Specification WW-H-171E & A-A-1192A (Type 24)

MAXIMUM TEMPERATURE: 343°C (650°F)

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain.

PRODUCT CODE	NOMINAL (INCH)	PIPE SIZE (MM)	DIA (MM)	SCREW
SE-HS 22	1/2"	DN 15	21.3	M 6
SE-HS 27	3/4"	DN 20	26.7	M 6
SE-HS 34	1"	DN 25	33.4	M 6
SE-HS 42	1 1/4"	DN 32	42.1	M 6
SE-HS 48	1 1/2"	DN 40	48.2	M 6
SE-HS 60	2"	DN 50	60.3	M 6
SE-HS 73	2 1/2"	DN 65	73	M 8
SE-HS 89	3"	DN 80	55.9	M 8
SE-HS 114	4"	DN 100	114.3	M 8
SE-HS 168	6"	DN 150	168.3	M 8

APPLICATION:

LIGHT SADDLE is recommended for supporting a piping system with vertically or horizontally to walls or ceilings.

CONSTRUCTION:

A LIGHT SADDLE consists of single piece of mild steel shaped to the proper configuration as shown in the diagram.

MATERIALS:

Mild Steel. Also other materials can be provided on request

MAXIMUM TEMPERATURE: 343°C (650°F)

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain.

PRODUCT CODE	NOMINAL (INCH)	PIPE SIZE (MM)	DIA (MM)	SCREW
SE-LS 22	1/2"	DN 15	21.3	M 6
SE-LS 27	3/4"	DN 20	26.7	M 6
SE-LS 34	1"	DN 25	33.4	M 6
SE-LS 42	1 1/4"	DN 32	42.1	M 6
SE-LS 48	1 1/2"	DN 40	48.2	M 6
SE-LS 60	2"	DN 50	60.3	M 6
SE-LS 73	2 1/2"	DN 65	73	M 6
SE-LS 89	3"	DN 80	55.9	M 6
SE-LS 114	4"	DN 100	114.3	M 6
SE-LS 168	6"	DN 150	168.3	M 6

HEAVY SADDLE

APPLICATION:

Recommended for supporting a piping system of heavy weight with fittings vertically or horizontally to walls or ceilings. It can be used to mount electrical & insulated pipes, corner locking and better gripping of electrical conduits.

CONSTRUCTION:

A HEAVY SADDLE consists of single piece of mildsteel shaped to the proper configuration as shown in the diagram.

MATERIALS:

Mild Steel. Also other materials can be provided on request

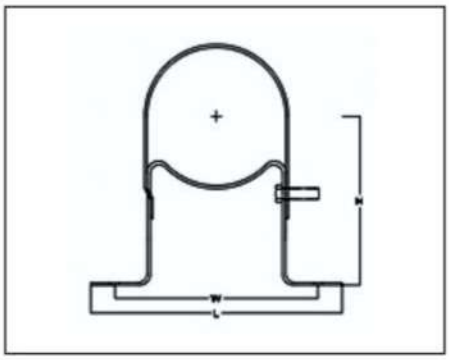
MAXIMUM TEMPERATURE: 343°C (650°F)

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain.

Product Code	Nominal Pipe Size		Diameter (mm)	Screw Size
	inch	mm		
SE-UC 22	1/2 "	DN15	21.3	M6
SE-UC 27	3/4 "	DN20	26.7	M6
SE-UC 34	1 "	DN25	33.4	M6
SE-UC 42	1 1/4"	DN32	42.1	M6
SE-UC 48	1 1/2 "	DN40	48.2	M6
SE-UC 54			54	M6
SE-UC 60	2 "	DN50	60.3	M6
SE-UC 67			67	M6
SE-UC 73	2 1/2 "	DN65	73.0	M6
SE-UC 82			82	M6
SE-UC 89	3 "	DN80	88.9	M6
SE-UC 102	3 1/2"	DN90	101.6	M6
SE-UC 108			108	M6
SE-UC 114	4 "	DN100	114.3	M6
SE-UC 126			126	M6
SE-UC 141	5"	DN125	141.3	M6
SE-UC 148			148	M6
SE-UC 155			155	M6
SE-UC 168	6"	DN150	168.3	M6
SE-UC 179			179	M6
SE-UC 190			190	M6
SE-UC 205			205	M6
SE-UC 219	8"	DN200	219.1	M8
SE-UC 230			230	M8
SE-UC 240			241	M8
SE-UC 263			263	M8
SE-UC 273	10 "	DN250	273.1	M8

OFFSET HANGER



APPLICATION:

Recommended for support of pipe lines running at a definite distance from the wall or floor of a building or structure. Used where removing and installing of pipe is done periodically.

CONSTRUCTION:

An OFFSET HANGER consists of single piece of mild steel shaped to the proper configuration.

MATERIALS:

Mild Steel. Also other materials can be provided on request

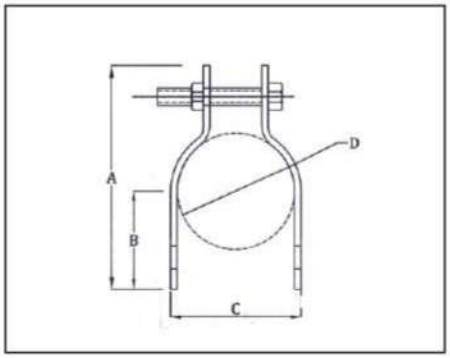
MAXIMUM TEMPERATURE: 343°C (650°F)

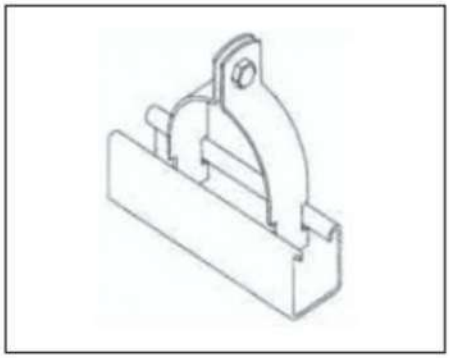
FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain.

Product Code	Nominal Pipe Size		Pipe OD (mm)	Dimension		
	inch	mm		L	W	H
SE-AC 60	2 "	DN50	60.3	214	186	83
SE-AC 73	2 1/2 "	DN65	73	269	231	113
SE-AC 89	3 "	DN80	88.9	284	246	113
SE-AC 110	-		110	298	259	113
SE-AC 114	4 "	DN100	114.3	311	271	113
SE-AC 141	5 "	DN125	141.3	386	336	138
SE-AC 168	6 "	DN150	168.3	411	361	138
SE-AC 219	8 "	DN200	219.1	469	419	138

STRUT CLAMP- TWO PIECE CHANNEL CLIP





APPLICATION:

Designed as a guide to permit longitudinal movement of pipe.

MATERIALS:

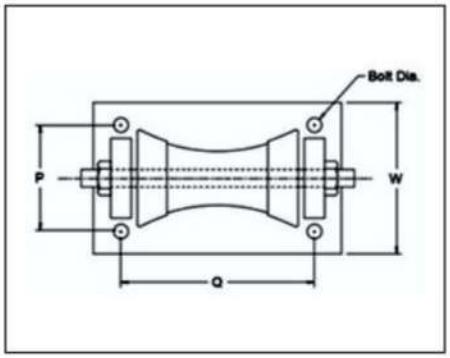
Mild Steel. Also other materials can also be provided on request

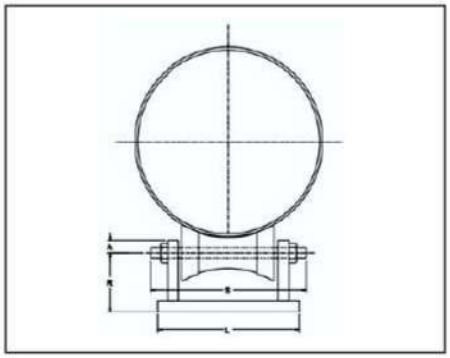
FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Epoxy Green, Plain.

PRODUCT CODE	NOMINAL PIPE SIZE		O.D. OF PIPE 'D' MM	A	B	C	FASTENER SIZE
	INCH	MM					
SE-TPCC 22	1/2"	15	22	50.5	14.2	25.00	M 6 x 25
SE-TPCC 27	3/4"	20	27	57.1	17.5	30.00	M 6 x 25
SE-TPCC 34	1"	25	34	63.8	20.6	38.00	M 6 x 25
SE-TPCC 42	1 1/4"	32	42	76.2	25.4	46.00	M 6 x 25
SE-TPCC 48	1 1/2"	40	48	81.5	28.4	52.00	M 6 x 25
SE-TPCC 60	2"	50	60	95.8	34.8	65.00	M 8 x 40
SE-TPCC 73	2 1/2"	65	73	108.7	41.1	78.00	M 8 x 40
SE-TPCC 89	3"	80	89	128.3	50.8	94.00	M 8 x 40
SE-TPCC 114	4"	100	114	153.7	63.5	120.00	M 8 x 40

PIPE ROLLER STAND





APPLICATION:

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

ROLLER MATERIALS:

Melleable Iron.
Mild Steel.

MATERIALS:

Mild Steel. Also other materials can be provided on request

APPROVALS:

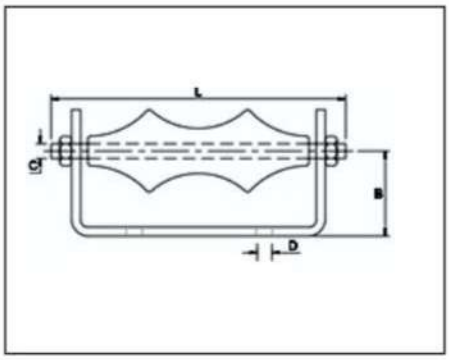
Manufacturers Standardization Society ANSI/MSS SP-58 & SP-69(Type 44)
Federal Specification WW-H-171E & A-A-1192A (Type 45)

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain.

Product Code	Nominal Pipe Size		Pipe OD (mm)	S	Base Plate		R	Q	P
	In.	mm			L	W			
SE-ROS 60	2"	DN50	59	80	90	145	50	40	100
SE-ROS 73	2 1/2"	DN65	75	90	100	145	50	48	100
SE-ROS 89	3"	DN80	89	95	105	145	50	55	100
SE-ROS 102	3 1/2"	DN90	102	100	110	145	50	61	100
SE-ROS 114	4"	DN100	115	115	125	155	50	72	115
SE-ROS 141	5"	DN125	141	130	140	155	55	85	115
SE-ROS 168	6"	DN150	168	160	170	165	65	100	125
SE-ROS 219	8"	DN200	219	190	200	170	75	125	130
SE-ROS 273	10"	DN250	273	225	235	170	90	155	130
SE-ROS 323	12"	DN300	323	260	270	170	90	180	130
SE-ROS 356	14"	DN350	356	275	285	170	120	197	130
SE-ROS 406	16"	DN400	406	300	310	205	120	220	165
SE-ROS 457	18"	DN450	457	345	355	205	130	250	165
SE-ROS 508	20"	DN500	508	370	380	205	130	275	165
SE-ROS 610	24"	DN600	610	480	490	230	160	330	190
SE-ROS 660	26"	DN650	661	500	510	245	180	355	200
SE-ROS 711	28"	DN700	712	530	540	245	180	385	200
SE-ROS 762	30"	DN750	755	550	560	245	200	405	200

PIPE ROLLER CHAIR



APPLICATION:

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

MAXIMUM TEMPERATURE: 343°C (650°F)

MATERIALS:

Mild Steel. Also other materials can be provided on request

APPROVALS:

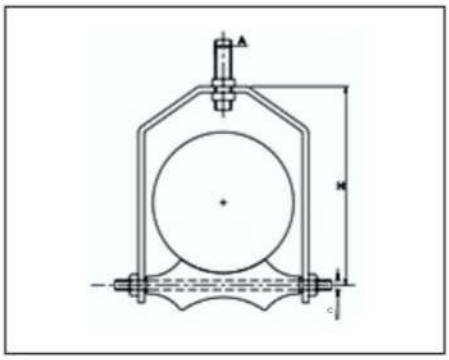
Manufacturers Standardization Society ANSI/MSS SP-58 & SP-69(Type 44)
Federal Specification WW-H-171E & A-A-1192A (Type 45)

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain.

Product Code	NPS (in)	NPS (mm)	Width	Thickness	Dimensions (mm)			
					B	C	D	L
SE-PRC 60	2"	59	30	6	40	M12	M12	115
SE-PRC 73	2 ½"	75	30	6	40	M12	M12	125
SE-PRC 89	3"	89	30	6	45	M12	M12	145
SE-PRC 102	3 ½"	102	30	6	45	M12	M12	160
SE-PRC 114	4"	115	40	10	55	M12	M16	175
SE-PRC 141	5"	141	40	10	55	M12	M16	200
SE-PRC 168	6"	168	50	10	65	M20	M16	245
SE-PRC 219	8"	219	50	10	75	M24	M20	305
SE-PRC 273	10"	273	50	12	90	M24	M20	365
SE-PRC 323	12"	323	50	12	90	M24	M20	425
SE-PRC 356	14"	356	50	12	120	M24	M24	460
SE-PRC 406	16"	406	75	12	120	M24	M24	515
SE-PRC 457	18"	457	75	12	130	M33	M24	580
SE-PRC 508	20"	508	75	12	130	M33	M24	630
SE-PRC 610	24"	610	100	16	160	M50	M24	780
SE-PRC 660	26"	661	100	16	180	M50	M24	845
SE-PRC 711	28"	712	100	16	180	M50	M24	895
SE-PRC 762	30"	755	100	16	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:

Mild Steel. Also other materials can be provided on request

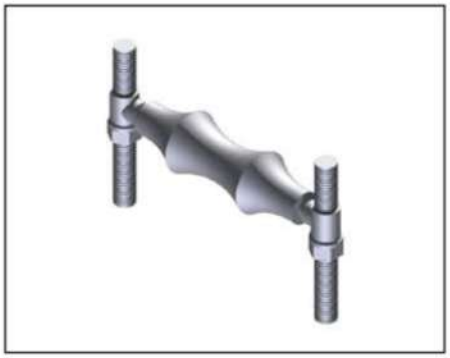
APPROVALS:

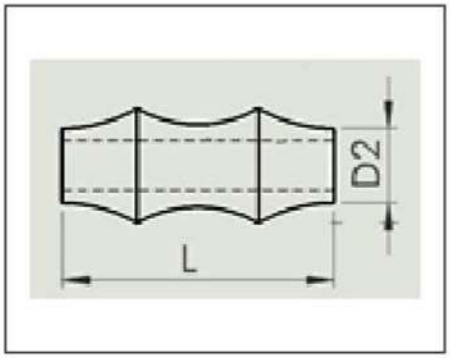
Manufacturers Standardization Society ANSI/MSS SP-58 & SP-69(Type 43)
Federal Specification WW-H-171E & A-A-1192A (Type 43)

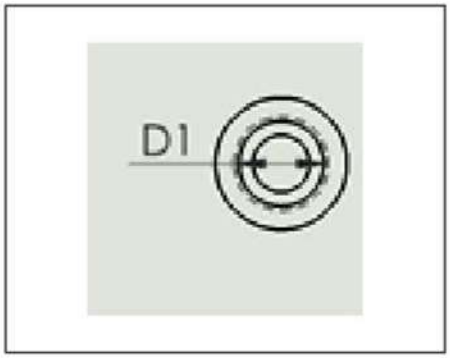
FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain.

Product Code	Nominal Pipe Size		Pipe OD (mm)	Dimensions (mm)		
	In.	mm		A	C	H
SE - ARH 60	2"	DN50	59	M12	M12 x 115	105
SE - ARH 73	2 ½"	DN65	75	M12	M12 x 125	125
SE - ARH 89	3"	DN80	89	M12	M12 x 145	140
SE - ARH 102	3 ½"	DN90	102	M16	M12 x 160	155
SE - ARH 114	4"	DN100	115	M16	M12 x 175	170
SE - ARH 141	5"	DN125	141	M20	M12 x 200	200
SE - ARH 168	6"	DN150	168	M20	M20 x 245	230
SE - ARH 219	8"	DN200	219	M20	M24 x 305	290
SE - ARH 273	10"	DN250	273	M24	M24 X 365	350
SE - ARH 323	12"	DN300	323	M24	M24 x 425	400
SE - ARH 356	14"	DN350	356	M24	M24 x 460	445
SE - ARH 406	16"	DN400	406	M24	M24 x 515	500
SE - ARH 457	18"	DN450	457	M30	M33 x 580	555
SE - ARH 508	20"	DN500	508	M30	M33 x 630	610
SE - ARH 610	24"	DN600	610	M30	M50 x 780	725
SE - ARH 660	26"	DN350	661	M36	M50 x 845	785
SE - ARH 711	28"	DN700	712	M36	M50 x 895	840
SE - ARH 762	30"	DN750	755	M36	M50 x 940	885







APPLICATION:

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

ROLLER MATERIALS:

Malleable Iron, Mild Steel also available.

MATERIALS:

Mild Steel. Also other materials can be provided on request

APPROVALS:

Manufacturers Standardization Society ANSI/MSS SP-58 & SP-69(Type 41).
Federal Specification WW-H-171E & A-A-1192A (Type 42)

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain.

Product Code	Nominal Pipe Size		Pipe OD (mm)	Dimensions (mm)			
	In.	mm		D	L	D1	D2
SE-PR 60	2"	DN50	59	27.90	66	20	18
SE-PR 73	2 ½"	DN65	75	32.05	79	22	20
SE-PR 89	3"	DN80	89	33.92	95	22	20
SE-PR 102	3 ½"	DN90	102	35.67	108	22	20
SE-PR 114	4"	DN100	115	41.41	121	26	24
SE-PR 141	5"	DN125	141	48.89	148	30	28
SE-PR 168	6"	DN150	168	58.51	175	36	34
SE-PR 219	8"	DN200	219	67.34	227	38	36
SE-PR 273	10"	DN250	273	80.58	281	44	42
SE-PR 323	12"	DN300	323	93.27	330	50	48
SE-PR 356	14"	DN350	356	115.69	362	68	66
SE-PR 406	16"	DN400	406	122.39	413	68	66
SE-PR 457	18"	DN450	457	131.23	464	70	68
SE-PR 508	20"	DN500	508	144.06	514	76	74
SE-PR 610	24"	DN600	610	173.72	616	92	90
SE-PR 660	26"	DN650	661	188.56	669	100	98
SE-PR 711	28"	DN700	712	201.39	722	106	104
SE-PR 762	30"	DN750	755	215.15	768	114	112

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:

Mild Steel. Also other materials can be provided on request

APPROVALS:

Manufacturers Standardization Society ANSI/MSS SP-58 & SP-69 (Type 39)
Federal Specification WW-H-171E & A-A-1192A (Type 40A & 40B)

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain.

Product Code	Nominal Pipe Size		Pipe OD (mm)	Insulation (mm)
	In.	mm		
SE-PIS 34-25	1"	DN25	33.4	25
SE-PIS 34-50	1"	DN25	33.4	50
SE-PIS 42-25	1 ¼"	DN32	42	25
SE-PIS 42-50	1 ¼"	DN32	42	50
SE-PIS 48-25	1 ½"	DN40	48	25
SE-PIS 48-50	1 ½"	DN40	48	50
SE-PIS 60-25	2"	DN50	60	25
SE-PIS 60-50	2"	DN50	60	50
SE-PIS 60-75	2"	DN50	60	75
SE-PIS 73-25	2 ½"	DN65	73	25
SE-PIS 73-50	2 ½"	DN65	73	50
SE-PIS 73-75	2 ½"	DN65	73	75
SE-PIS 89-25	3"	DN80	90	25
SE-PIS 89-50	3"	DN80	90	50
SE-PIS 89-75	3"	DN80	90	75
SE-PIS 114-25	4"	DN100	115	25
SE-PIS 114-50	4"	DN100	115	50
SE-PIS 141-75	4"	DN100	115	75
SE-PIS 141-25	5"	DN125	140	25
SE-PIS 141-50	5"	DN125	140	50
SE-PIS 141-75	5"	DN125	140	75
SE-PIS 168-25	6"	DN150	168	25
SE-PIS 168-50	6"	DN150	168	50
SE-PIS 168-75	6"	DN150	168	75
SE-PIS 219-25	8"	DN200	219	25
SE-PIS 219-50	8"	DN200	219	50
SE-PIS 219-75	8"	DN200	219	75
SE-PIS 273-25	10"	DN250	273	25
SE-PIS 273-50	10"	DN250	273	50
SE-PIS 273-75	10"	DN250	273	75
SE-PIS 323-25	12"	DN300	323	25
SE-PIS 323-50	12"	DN300	323	50
SE-PIS 323-75	12"	DN300	323	75
SE-PIS 356-25	14"	DN350	356	25
SE-PIS 356-50	14"	DN350	356	50

PIPE COVERING SADDLE

APPLICATION:

Ideal for protecting pipe insulation

MATERIALS:

Mild Steel. Also other materials can be provided on request

APPROVALS:

Complies with manufacturers standardization society
MSS-SP-58 & MSS-SP-69 (Type 40)

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain.

Product Code	Pipe Size Inch	Pipe Size mm	Pipe OD (mm)	Insulation (mm)
SE-PCS 34-25	1"	DN 25	33.4	25
SE-PCS 34-32	1"	DN 25	33.4	32
SE-PCS 34-50	1"	DN 25	33.4	50
SE-PCS 42-25	1 1/4"	DN 32	42.2	25
SE-PCS 42-32	1 1/4"	DN 32	42.2	32
SE-PCS 42-50	1 1/4"	DN 32	42.2	50
SE-PCS 48-25	1 1/2"	DN 40	48.3	25
SE-PCS 48-32	1 1/2"	DN 40	48.3	32
SE-PCS 48-50	1 1/2"	DN 40	48.3	50
SE-PCS 60-25	2"	DN 50	60.3	25
SE-PCS 60-32	2"	DN 50	60.3	32
SE-PCS 60-50	2"	DN 50	60.3	50
SE-PCS 73-25	2 1/2"	DN 65	73	25
SE-PCS 73-32	2 1/2"	DN 65	73	32
SE-PCS 73-50	2 1/2"	DN 65	73	50
SE-PCS 89-25	3"	DN 80	88.9	25
SE-PCS 89-32	3"	DN 80	88.9	32
SE-PCS 89-50	3"	DN 80	88.9	50
SE-PCS 114-25	4"	DN 100	114.3	25
SE-PCS 114-32	4"	DN 100	114.3	32
SE-PCS 114-50	4"	DN 100	114.3	50
SE-PCS 141-25	5"	DN 125	141.3	25
SE-PCS 141-32	5"	DN 125	141.3	32
SE-PCS 141-50	5"	DN 125	141.3	50
SE-PCS 168-25	6"	DN 150	168.3	25
SE-PCS 168-32	6"	DN 150	168.3	32
SE-PCS 168-50	6"	DN 150	168.3	50
SE-PCS 219-25	8"	DN 200	219.1	25
SE-PCS 219-32	8"	DN 200	219.1	32
SE-PCS 219-50	8"	DN 200	219.1	50
SE-PCS 273-25	10"	DN 250	273.1	25
SE-PCS 273-32	10"	DN 250	273.1	32
SE-PCS 273-50	10"	DN 250	273.1	50

Product Code	Pipe Size Inch	Pipe Size mm	Pipe OD (mm)	Insulation (mm)
SE-PCS 323-25	12"	DN 300	323.6	25
SE-PCS 323-32	12"	DN 300	323.6	32
SE-PCS 323-50	12"	DN 300	323.6	50
SE-PCS 356-25	14"	DN 350	355.6	25
SE-PCS 356-32	14"	DN 350	355.6	32
SE-PCS 356-50	14"	DN 350	355.6	50
SE-PCS 400-25	16"	DN 406	406.4	25
SE-PCS 400-32	16"	DN 406	406.4	32
SE-PCS 400-50	16"	DN 406	406.4	50
SE-PCS 457-25	18"	DN 450	457.2	25
SE-PCS 457-32	18"	DN 450	457.2	32
SE-PCS 457-50	18"	DN 450	457.2	50
SE-PCS 508-25	20"	DN 500	508	25
SE-PCS 508-32	20"	DN 500	508	32
SE-PCS 508-50	20"	DN 500	508	50
SE-PCS 556-25	22"	DN 550	558.8	25
SE-PCS 556-32	22"	DN 550	558.8	32
SE-PCS 556-50	22"	DN 550	558.8	50
SE-PCS 610-25	24"	DN 600	609.6	25
SE-PCS 610-32	24"	DN 600	609.6	32
SE-PCS 610-50	24"	DN 600	609.6	50
SE-PCS 660-25	26"	DN 650	660.4	25
SE-PCS 660-32	26"	DN 650	660.4	32
SE-PCS 660-50	26"	DN 650	660.4	50
SE-PCS 711-25	28"	DN 700	711.2	25
SE-PCS 711-32	28"	DN 700	711.2	32
SE-PCS 711-50	28"	DN 700	711.2	50
SE-PCS 762-25	30"	DN 750	762	25
SE-PCS 762-32	30"	DN 750	762	32
SE-PCS 762-50	30"	DN 750	762	50
SE-PCS 812-25	32"	DN 800	812.8	25
SE-PCS 812-32	32"	DN 800	812.8	32
SE-PCS 812-50	32"	DN 800	812.8	50

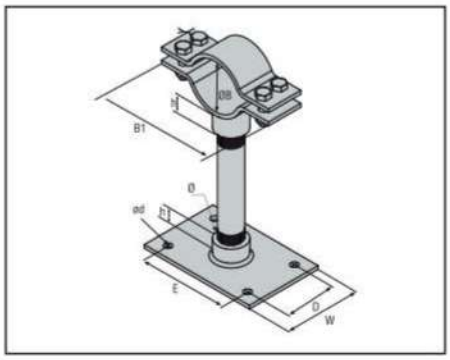
SLIDING PIPE SUPPORT

TECHNICAL DATA :

Material : Mild Steel
Finish : Electro-Galvanized /Hot Dip Galvanized
Temperature : Upto 300°C.

Nominal Size	Insulation Thicknes	Outside Diameter (mm)	Clamp		Dimensions Height	Length of Guide	Clamping Fastener	Safe Load (KG)
			width	Thickness				
200	-	219.1	50	8	107	290	M 16	3000
200	32 MM	283.1	50	8	107	290	M 16	3000
200	50 MM	319.1	50	8	142	290	M 16	3000
250	-	273	50	8	107	290	M 16	3000
250	32 MM	337	50	8	107	290	M 16	3000
250	50 MM	373	50	8	142	290	M 16	3000
300	-	323.6	50	8	107	290	M 16	3000
300	32 MM	387.6	60	8	107	290	M 16	3500
300	50 MM	423.6	60	8	142	290	M 16	3500
350	-	355.6	60	8	142	290	M 16	3500
350	32 MM	419.6	60	8	142	290	M 16	3500
350	50 MM	455.6	60	8	192	290	M 16	3500
400	-	406.4	60	8	142	290	M 16	3500
400	32 MM	470.4	60	8	142	290	M 16	3500
400	50 MM	506.4	60	8	192	290	M 16	3500
450	-	457.2	60	8	142	290	M 16	3500
450	32 MM	521.2	75	10	142	290	M 16	4500
450	50 MM	557.2	75	10	192	290	M 16	4500
500	-	508	75	10	142	290	M 16	4500
500	32 MM	572	75	10	142	290	M 16	4500
500	50 MM	608	75	10	192	290	M 16	4500
600	-	609.6	75	10	142	290	M 16	4500
600	32 MM	673.6	75	10	142	290	M 16	4500
600	50 MM	709.6	75	10	192	290	M 16	4500

PIPE CLAMP WITH SLEEVE



SERVICE:

Designed for suspending and fixing of vertical and expanded pipes. For bending - fastening at greater distances from the building structure.

MATERIALS:

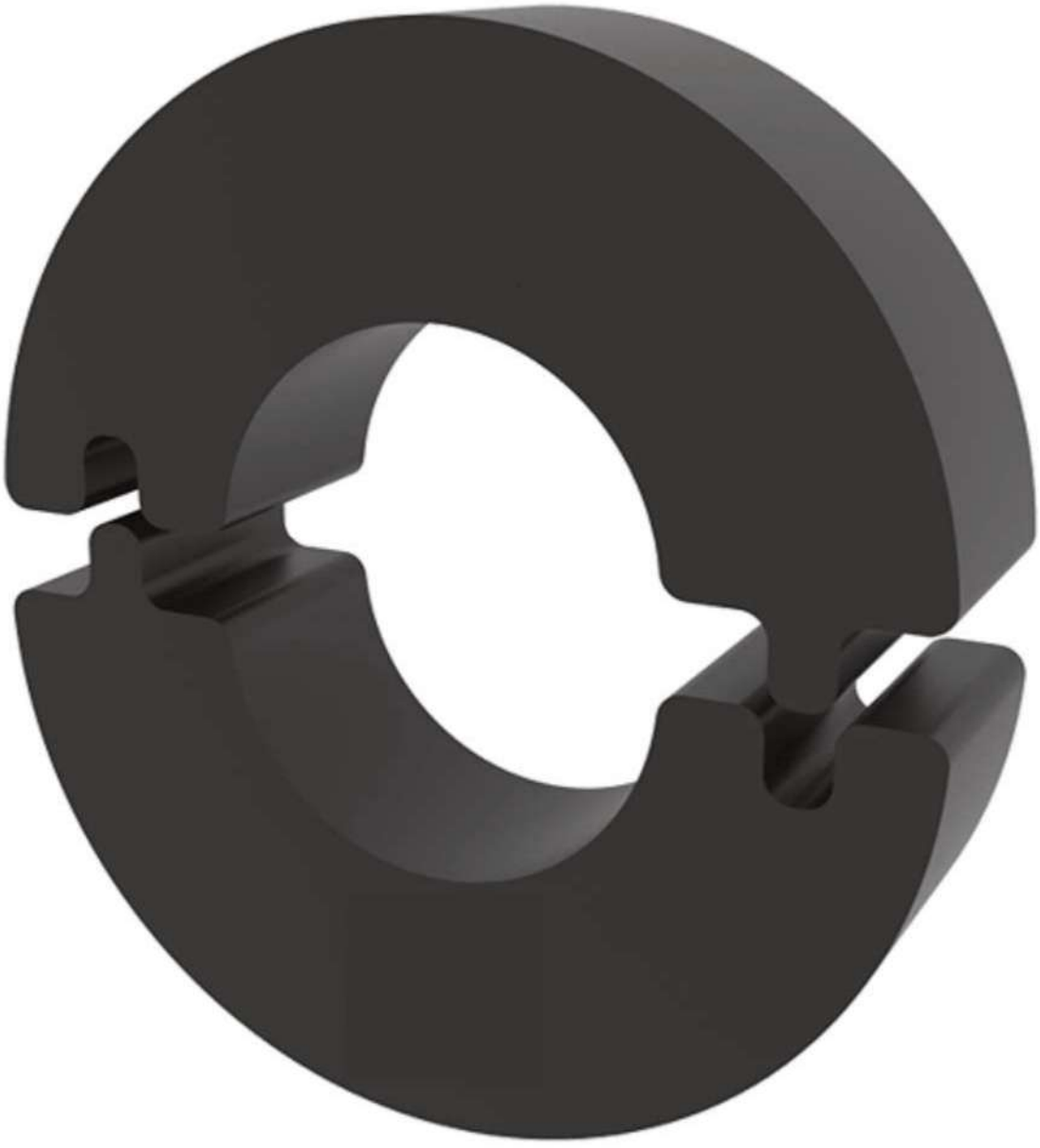
Mild Steel.

FINISH AVAILABLE:

Electro-Galvanized, Hot Dip Galvanized, Plain.

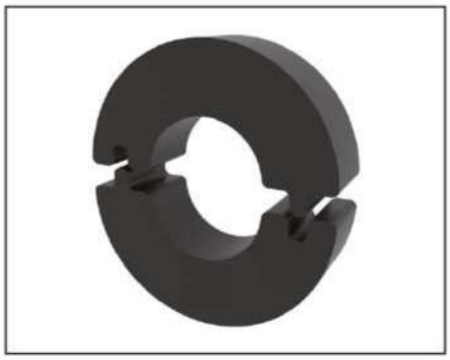
Product Code	Pipe Size		ØB	B1	Ø	L	w	h	d	D	E	Design Load
	inch	mm	mm	mm	inch.	mm	mm	mm	mm	mm	mm	kN
SE-PCSL-22	1/2"	15	20-26	82	1/2"	120	75	34	8.50	55	100	4.50
SE-PCSL-27	3/4"	20	26-32	104	1/2"	120	75	34	8.50	55	100	4.50
SE-PCSL-34	1"	25	32-39	99	1/2"	120	75	34	9.00	55	100	4.50
SE-PCSL-42	1 1/4"	32	41-48	115	3/4"	130	85	36	9.00	58	98	6.80
SE-PCSL-48	1 1/2"	40	46-55	135	3/4"	130	85	36	9.00	58	98	6.80
SE-PCSL-60	2"	50	56-66	148	1"	150	100	42	11.00	64	113	6.80
SE-PCSL-73	2 1/2"	65	72-84	155	1"	150	100	42	11.00	64	113	6.80
SE-PCSL-89	3"	80	85-94	185	1"	150	100	42	11.00	64	113	7.40
SE-PCSL-114	4"	100	110-118	214	1 1/4"	175	125	46	11.00	88	138	8.50
SE-PCSL-140	5"	125	137-148	230	1 1/4"	175	125	46	11.00	88	138	9.20
SE-PCSL-168	6"	150	158-172	262	1 1/2"	200	150	47	14.00	110	160	10.40
SE-PCSL-219	8"	200	208-230	335	1 1/2"	200	150	47	14.00	110	160	10.40
SE-PCSL-273	10"	250	265-280	405	1 1/2"	200	150	47	14.00	110	160	16.00

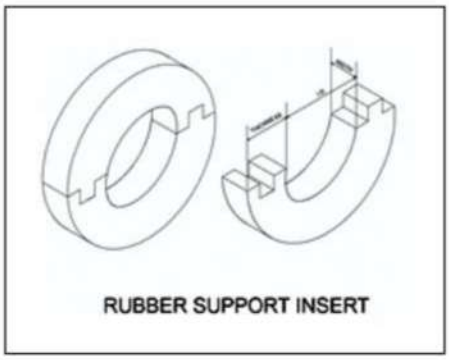
R.S.I



R.S.I

RUBBER SUPPORT INSERTS





APPLICATION:

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

CONSTRUCTION:

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

DENSITY : 1400kg/m^3

THERMAL CONDUCTIVITY : 0.16W/m°C

TEMPERATURE RANGE : -20°C to 110°C

Nominal Pipe Size		Schedule 40 steel pipe OD (mm)	Product Code for Rubber Support Insert							
Inches	mm		1/2" 13 mm	3/4" 19 mm	1" 25 mm	1 1/4" 32 mm	1 1/2" 38 mm	2" 50 mm	2 1/2" 65 mm	3" 75 mm
1/2"	15	21.3	SE RSI 13 - 22	SE RSI 19 - 22	SE RSI 25- 22	SE RSI 32- 22	SE RSI 38- 22	SE RSI 50- 22	SE RSI 65- 22	SE RSI 75 - 22
3/4"	20	26.7	SE RSI 13 - 27	SE RSI 19 - 27	SE RSI 25- 27	SE RSI 32- 27	SE RSI 38- 27	SE RSI 50- 27	SE RSI 65- 27	SE RSI 75 - 27
1"	25	33.4	SE RSI 13- 34	SE RSI 19 - 34	SE RSI 25- 34	SE RSI 32- 34	SE RSI 38- 34	SE RSI 50- 34	SE RSI 65- 34	SE RSI 75 - 34
1 1/4"	32	42.1	SE RSI 13- 42	SE RSI 19 - 42	SE RSI 25- 42	SE RSI 32- 42	SE RSI 38- 42	SE RSI 50- 42	SE RSI 65- 42	SE RSI 75 - 42
1 1/2"	40	48.2	SE RSI 13- 48	SE RSI 19 - 48	SE RSI 25- 48	SE RSI 32- 48	SE RSI 38- 48	SE RSI 50- 48	SE RSI 65- 48	SE RSI 75 - 48
2"	50	60.3	SE RSI 13- 60	SE RSI 19 - 60	SE RSI 25- 60	SE RSI 32- 60	SE RSI 38- 60	SE RSI 50- 60	SE RSI 50- 60	SE RSI 75 - 60
2 1/2"	65	73.0	SE RSI 13- 73	SE RSI 19 - 73	SE RSI 25- 73	SE RSI 32- 73	SE RSI 38- 73	SE RSI 50- 73	SE RSI 50- 73	SE RSI 75 - 73
3"	80	88.9	SE RSI 13- 89	SE RSI 19 - 89	SE RSI 25- 89	SE RSI 32- 89	SE RSI 38- 89	SE RSI 50- 89	SE RSI 50- 89	SE RSI 75 - 89
3 1/2"	90	101.6	SE RSI 13- 102	SE RSI 19 - 102	SE RSI 25- 102	SE RSI 32- 102	SE RSI 38- 102	SE RSI 50- 102	SE RSI 50-102	SE RSI 75 - 102
4"	100	114.3	SE RSI 13- 114	SE RSI 19 - 114	SE RSI 25- 114	SE RSI 32- 114	SE RSI 38- 114	SE RSI 50- 114	SE RSI 50-114	SE RSI 75 - 114
5"	125	141.3	SE RSI 13- 141	SE RSI 19 - 141	SE RSI 25- 141	SE RSI 32- 141	SE RSI 38- 141	SE RSI 50- 141	SE RSI 50-141	SE RSI 75 - 141
6"	150	168.3	SE RSI 13- 168	SE RSI 19 - 168	SE RSI 25- 168	SE RSI 32- 168	SE RSI 38- 168	SE RSI 50- 168	SE RSI 50- 168	SE RSI 75 - 168
8"	200	219.3	SE RSI 13- 219	SE RSI 19 - 219	SE RSI 25- 219	SE RSI 32- 219	SE RSI 38- 219	SE RSI 50- 219	SE RSI 50- 219	SE RSI 75 - 219
10"	250	273.0	SE RSI 13- 273	SE RSI 19 - 273	SE RSI 25- 273	SE RSI 32- 273	SE RSI 38- 273	SE RSI 50- 273	SE RSI 50- 273	SE RSI 75 - 273
12"	300	323.6	SE RSI 13- 323	SE RSI 19 - 323	SE RSI 25- 323	SE RSI 32- 323	SE RSI 38- 323	SE RSI 50- 323	SE RSI 50- 323	SE RSI 75 - 323
14"	350	355.6	SE RSI 13- 356	SE RSI 19 - 356	SE RSI 25- 356	SE RSI 32- 356	SE RSI 38- 256	SE RSI 50- 256	SE RSI 50- 256	SE RSI 75 - 256
16"	400	406.4	SE RSI 13- 406	SE RSI 19 - 406	SE RSI 25- 406	SE RSI 32- 406	SE RSI 38- 406	SE RSI 50- 406	SE RSI 50- 406	SE RSI 75 - 406
18"	450	457.2	SE RSI 13- 457	SE RSI 19 - 457	SE RSI 25- 457	SE RSI 32- 457	SE RSI 38- 457	SE RSI 50- 457	SE RSI 50- 457	SE RSI 75 - 457
20"	500	508.0	SE RSI 13- 508	SE RSI 19 - 508	SE RSI 25- 508	SE RSI 32- 508	SE RSI 38- 508	SE RSI 50- 508	SE RSI 50- 508	SE RSI 75 - 508
24"	600	609.6	SE RSI 13- 610	SE RSI 19 - 610	SE RSI 25- 610	SE RSI 32- 610	SE RSI 38- 610	SE RSI 50- 610	SE RSI 50- 610	SE RSI 75 - 610

Size	OD	RSI size	Total OD
1/2 "	21.3	1/2" X 13mm X 25mm	47.3
3/4 "	26.7	3/4 " X 13mm X 25mm	52.7
1 "	33.4	1 " X 13mm X 25mm	59.4
1 1/4"	42.1	1 1/4" X 13mm X 25mm	68.1
1 1/2"	48.2	1 1/2" X 13mm X 25mm	74.2
2 "	60.3	2 " X 13mm X 25mm	86.3
2 1/2 "	73	2 1/2 " X 13mm X 38mm	99
3 "	88.9	3 " X 13mm X 38mm	114.9
3 1/2 "	101.6	3 1/2 " X 13mm X 38mm	127.6
4 "	114.3	4 " X 13mm X 38mm	140.3
5 "	141.3	5 " X 13mm X 38mm	167.3
6 "	168.3	6 " X 13mm X 50mm	194.3
8 "	219.1	8 " X 13mm X 50mm	245.1
10 "	273	10 " X 13mm X 50mm	299
12 "	323.8	12 " X 13mm X 50mm	349.8
14 "	355.6	14 " X 13mm X 50mm	381.6
16 "	406.4	16 " X 13mm X 50mm	432.4
18 "	457.2	18 " X 13mm X 50mm	483.2
20 "	508	20 " X 13mm X 50mm	534
24 "	609.6	24 " X 13mm X 50mm	635.6

Size	OD	RSI size	Total OD
1/2 "	21.3	1/2" X 19mm X 25mm	59.3
3/4 "	26.7	3/4 " X 19mm X 25mm	64.7
1 "	33.4	1 " X 19mm X 25mm	71.4
1 1/4"	42.1	1 1/4" X 19mm X 25mm	80.1
1 1/2"	48.2	1 1/2" X 19mm X 25mm	86.2
2 "	60.3	2 " X 19mm X 25mm	98.3
2 1/2 "	73	2 1/2 " X 19mm X 38mm	111
3 "	88.9	3 " X 19mm X 38mm	126.9
3 1/2 "	101.6	3 1/2 " X 19mm X 38mm	139.6
4 "	114.3	4 " X 19mm X 38mm	152.3
5 "	141.3	5 " X 19mm X 38mm	179.3
6 "	168.3	6 " X 19mm X 50mm	206.3
8 "	219.1	8 " X 19mm X 50mm	257.1
10 "	273	10 " X 19mm X 50mm	311
12 "	323.8	12 " X 19mm X 50mm	361.8
14 "	355.6	14 " X 19mm X 50mm	393.6
16 "	406.4	16 " X 19mm X 50mm	444.4
18 "	457.2	18 " X 19mm X 50mm	495.2
20 "	508	20 " X 19mm X 50mm	546
24 "	609.6	24 " X 19mm X 50mm	647.6

Size	OD	RSI size	Total OD
1/2 "	21.3	1/2" X 25mm X 25mm	71.3
3/4 "	26.7	3/4 " X 25mm X 25mm	76.7
1 "	33.4	1 " X 25mm X 25mm	83.4
1 1/4"	42.1	1 1/4" X 25mm X 25mm	92.1
1 1/2"	48.2	1 1/2" X 25mm X 25mm	98.2
2 "	60.3	2 " X 25mm X 25mm	110.3
2 1/2	73	2 1/2 " X 25mm X 38mm	123
3 "	88.9	3 " X 25mm X 38mm	138.9
3 1/2 "	101.6	3 1/2 " X 25mm X 38mm	151.6
4 "	114.3	4 " X 25mm X 38mm	164.3
5 "	141.3	5 " X 25mm X 38mm	191.3
6 "	168.3	6 " X 25mm X 50mm	218.3
8 "	219.1	8 " X 25mm X 50mm	269.1
10 "	273	10 " X 25mm X 50mm	323
12 "	323.8	12 " X 25mm X 50mm	373.8
14 "	355.6	14 " X 25mm X 50mm	405.6
16 "	406.4	16 " X 25mm X 50mm	456.4
18 "	457.2	18 " X 25mm X 50mm	507.2
20 "	508	20 " X 25mm X 50mm	558
24 "	609.6	24 " X 25mm X 50mm	659.6

Size	OD	RSI size	Total OD
1/2 "	21.3	½" X 32mm X 25mm	85.3
3/4 "	26.7	3/4 " X 32mm X 25mm	90.7
1 "	33.4	1 " X 32mm X 25mm	97.4
1 1/4"	42.1	1 1/4" X32mm X 25mm	106.1
1 1/2"	48.2	1 ½" X 32mm X 25mm	112.2
2"	60.3	2 " X 32mm X 25mm	124.3
21/2"	73	2 1/2 " X 32mm X 38mm	137
3 "	88.9	3 " X 32mm X 38mm	152.9
31/2"	101.6	3 1/2 " X 32mm X 38mm	165.6
4 "	114.3	4 " X 32mm X 38mm	178.3
5 "	141.3	5 " X 32mm X 38mm	205.3
6 "	168.3	6 " X 32mm X 50mm	232.3
8 "	219.1	8 " X32mm X 50mm	283.1
10 "	273	10 " X 32mm X 50mm	337
12 "	323.8	12 " X 32mm X 50mm	387.8
14 "	355.6	14 " X 32mm X 50mm	419.6
16 "	406.4	16 " X32mm X 50mm	470.4
18 "	457.2	18 " X 32mm X 50mm	521.2
20 "	508	20 " X 32mm X 50mm	572
24 "	609.6	24 " X 32mm X 50mm	673.6

Size	OD	RSI size	Total OD
1/2 "	21	1/2" X 38mm X 25mm	97.3
3/4 "	27	3/4 " X 38mm X 25mm	102.7
1 "	33	1 " X 38mm X 25mm	109.4
1 1/4"	42	1 1/4" X 38mm X 25mm	118.1
1 1/2"	48	1 1/2" X 38mm X 25mm	124.2
2 "	60	2 " X 38mm X 25mm	136.3
2 1/2 "	73	2 1/2 " X 38mm X 38mm	149
3 "	89	3 " X 38mm X 38mm	164.9
3 1/2 "	102	3 1/2 " X 38mm X 38mm	177.6
4 "	114	4 " X 38mm X 38mm	190.3
5 "	141	5 " X 38mm X 38mm	217.3
6 "	168	6 " X 38mm X 50mm	244.3
8 "	219	8 " X 38mm X 50mm	295.1
10 "	273	10 " X 38mm X 50mm	349
12 "	324	12 " X 38mm X 50mm	399.8
14 "	356	14 " X 38mm X 50mm	431.6
16 "	406	16 " X 38mm X 50mm	482.4
18 "	457	18 " X 38mm X 50mm	533.2
20 "	508	20 " X 38mm X 50mm	584
24 "	610	24 " X 38mm X 50mm	685.6

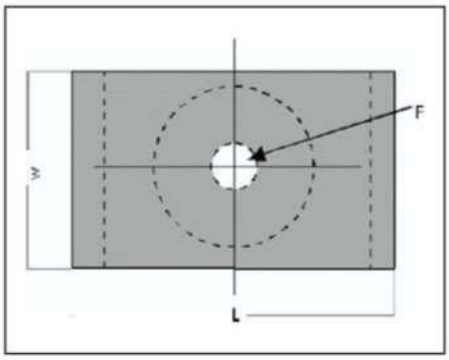
Size	OD	RSI size	Total OD
1/2 "	21.3	1/2" X 50mm X 25mm	121.3
3/4 "	26.7	3/4 " X 50mm X 25mm	126.7
1 "	33.4	1 " X 50mm X 25mm	133.4
1 1/4"	42.1	1 1/4" X 50mm X 25mm	142.1
1 1/2"	48.2	1 1/2" X 50mm X 25mm	148.2
2 "	60.3	2 " X 50mm X 25mm	160.3
2 1/2 "	73	2 1/2 " X 50mm X 38mm	173
3 "	88.9	3 " X 50mm X 38mm	188.9
3 1/2 "	101.6	3 1/2 " X 50mm X 38mm	201.6
4 "	114.3	4 " X 50mm X 38mm	214.3
5 "	141.3	5 " X 50mm X 38mm	241.3
6 "	168.3	6 " X 50mm X 50mm	268.3
8 "	219.1	8 " X 50mm X 50mm	319.1
10 "	273	10 " X 50mm X 50mm	373
12 "	323.8	12 " X 50mm X 50mm	423.8
14 "	355.6	14 " X 50mm X 50mm	455.6
16 "	406.4	16 " X 50mm X 50mm	506.4
18 "	457.2	18 " X 50mm X 50mm	557.2
20 "	508	20 " X 50mm X 50mm	608
24 "	609.6	24 " X 50mm X 50mm	709.6

Size	OD	RSI size	Total OD
1/2 "	21.3	1/2" X 65mm X 25mm	151.3
3/4 "	26.7	3/4 " X 65mm X 25mm	156.7
1 "	33.4	1 " X 65mm X 25mm	163.4
1 1/4"	42.1	1 1/4" X 65mm X 25mm	172.1
1 1/2"	48.2	1 1/2" X 65mm X 25mm	178.2
2 "	60.3	2 " X 65mm X 25mm	190.3
2 1/2 "	73	2 1/2" X 65mm X 38mm	203
3 "	88.9	3 " X 65mm X 38mm	218.9
3 1/2 "	101.6	3 1/2" X 65mm X 38mm	231.6
4 "	114.3	4 " X 65mm X 38mm	244.3
5 "	141.3	5 " X 65mm X 38mm	271.3
6 "	168.3	6 " X 65mm X 50mm	298.3
8 "	219.1	8 " X 65mm X 50mm	349.1
10 "	273	10 " X 65mm X 50mm	403
12 "	323.8	12 " X 65mm X 50mm	453.8
14 "	355.6	14 " X 65mm X 50mm	485.6
16 "	406.4	16 " X 65mm X 50mm	536.4
18 "	457.2	18 " X 65mm X 50mm	587.2
20 "	508	20 " X 65mm X 50mm	638
24 "	609.6	24 " X 65mm X 50mm	739.6

Size	OD	RSI size	Total OD
1/2 "	21.3	1/2" X 75mm X 25mm	171.3
3/4 "	26.7	3/4 " X 75mm X 25mm	176.7
1 "	33.4	1 " X 75mm X 25mm	183.4
1 1/4"	42.1	1 1/4" X 75mm X 25mm	192.1
1 1/2"	48.2	1 1/2" X 75mm X 25mm	198.2
2 "	60.3	2 " X 75mm X 25mm	210.3
2 1/2 "	73	2 1/2 " X 75mm X 38mm	223
3 "	88.9	3 " X 75mm X 38mm	238.9
3 1/2 "	101.6	3 1/2 " X 75mm X 38mm	251.6
4 "	114.3	4 " X 75mm X 38mm	264.3
5 "	141.3	5 " X 75mm X 38mm	291.3
6 "	168.3	6 " X 75mm X 50mm	318.3
8 "	219.1	8 " X 75mm X 50mm	369.1
10 "	273	10 " X 75mm X 50mm	423
12 "	323.8	12 " X 75mm X 50mm	473.8
14 "	355.6	14 " X 75mm X 50mm	505.6
16 "	406.4	16 " X 75mm X 50mm	556.4
18 "	457.2	18 " X 75mm X 50mm	607.2
20 "	508	20 " X 75mm X 50mm	658
24 "	609.6	24 " X 75mm X 50mm	759.6

Anti-Vibration Products

SPRING HANGER



APPLICATION:

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.

FEATURES:

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. Spring Vibration isolation hangers are designed to provide high efficiency isolation from structure-borne vibration and noise. Springs are colour-coded according to load ratings and are designed for 50% overload.

Product Code	COLOUR CODE	RATED LOAD (kg)	DEFLECTION (mm)	M (mm)	L (mm)	W (mm)	H (mm)	F (mm)	TOP HOLE (mm)
SESH 20/15	WHITE	15	20	53	57	38	70	10	12
SESH 20/30	YELLOW	30	20	53	57	38	70	10	12
SESH 20/50	PURPLE	50	20	53	57	38	70	10	12
SESH 25/10	PURPLE	10	25	53	62	52	100	12	13
SESH 25/15	YELLOW	15	25	53	62	52	100	12	13
SESH 25/20	GREY	20	25	53	62	52	100	12	13
SESH 25/40	LIGHT BLUE	40	25	53	62	52	100	12	13
SESH 25/60	GREEN	60	25	53	62	52	100	12	13
SESH 25/100	GREEN	100	25	83	90	65	125	14	15
SESH25/160	ORANGE	160	25	83	90	65	125	14	15
SESH 25/200	RED	200	25	83	90	65	125	14	15
SESH 25/250	PURPLE	250	25	83	90	65	125	14	15
SESH 25/300	GREY	300	25	102	112	95	165	18	19
SESH 25/400	ORANGE	400	25	102	112	95	165	18	19
SESH 25/500	BROWN	500	25	102	112	95	165	18	19
SESH 25/600	BLACK	600	25	102	112	95	165	18	19
SESH 25/800	RED	800	25	102	112	95	165	18	19
SESH 25/1050	WHITE	1050	25	102	112	95	165	18	19
SESH 25/1250	GREEN	1250	25	102	112	95	165	18	19

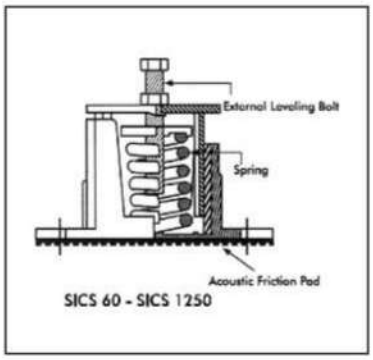
Due to policy of continual improvement, the specifications are subject to change without prior notice

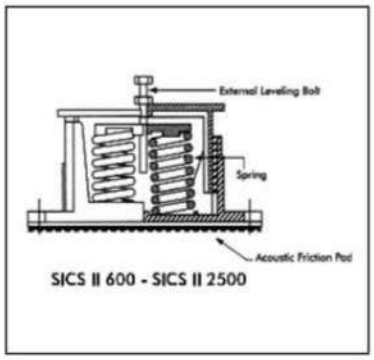
Measurements are subject to 5% tolerance.

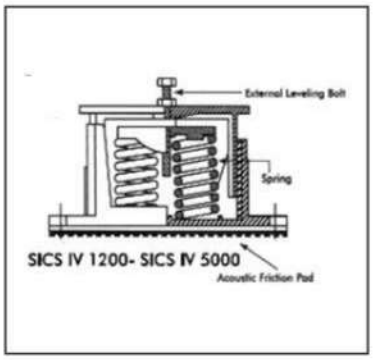
To achieve good sound suppressions do not over load fitting.

Compliance – Springs designed according to BS 1726 (Part 1) : 1987 and recommendations made by SAE (US)

CLOSED SPRING MOUNT







DESIGN FEATURES:-

- Colour coded spring to facilitate identification.
- Powder coated springs.
- Load upto 5000 kgs.
- Deflection upto 25mm.
- 4 Models
- 26 Load Ranges
- Deflection is at rated load with 15% Tolerances
- All mounts have approximately 50% over load capacity.
- Unique mount design provides horizontal stability, high loading capacity and protective spring enclosure.
- All Mounts have external leveling casing arrangement, capable of compensating for full static deflection.
- Inner walls of lower casing have resilient rubber snubbers which
  - Eliminates possibility of binding by providing a smooth guide path for the top casing
  - Limits lateral movement, particularly due to start up, start – up, shut – down and horizontal wind load
- Prevents isolator short – circuiting by avoiding metal to metal contact.
- Neoprene inserts below springs and 6 mm thick ribbed base pad act as noise breaks for high frequencies in the audible range, which can otherwise get transmitted to building structure.
- Mounting must be adjusted so that upper housing clears lower housing by at least 6mm & not more than 12mm

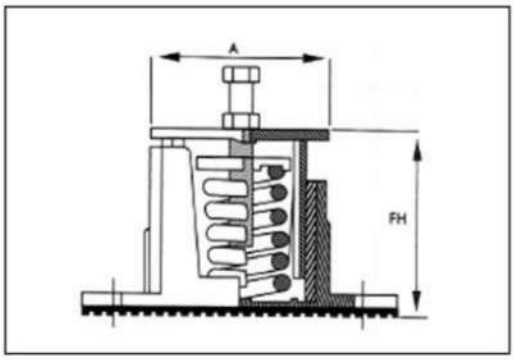
TYPICAL APPLICATION:

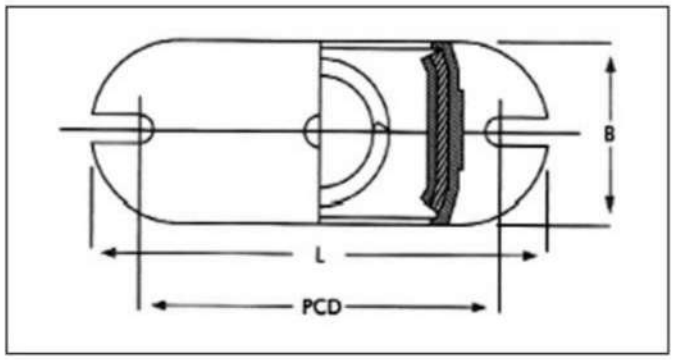
Application examples include – Chillers. AHU"S pumps, centrifugal / Axial Fans, Condensing Units, Rooftop Packaged units, Reciprocating compressors , DG sets , Punch presses, Drop Hammers, Floor Pipe supports

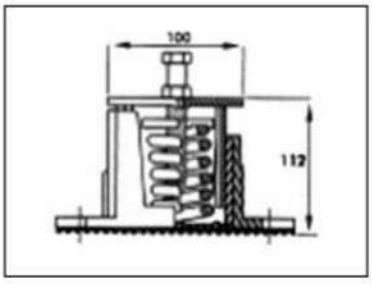
(Normally at first few pipe supports points leading from isolated equipments.

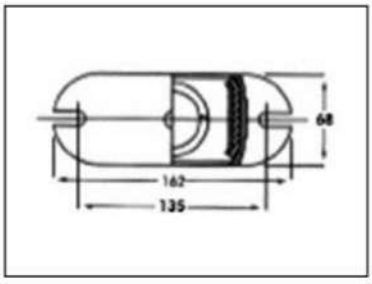
NOTE:

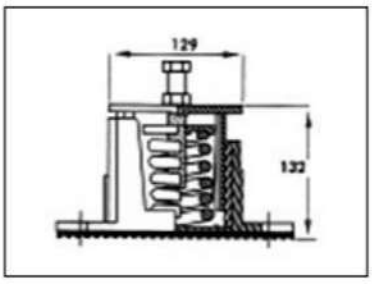
Custom load and deflection are also available.
Compliance – Springs designed according to BS 1726 (Part 1) : 1987 and recommendations made by SAE (US)

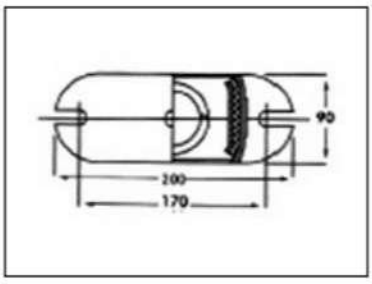


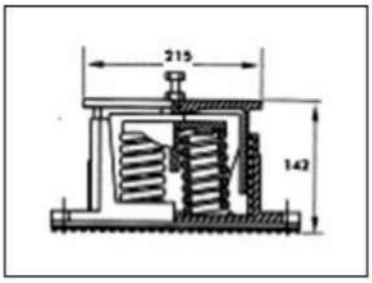


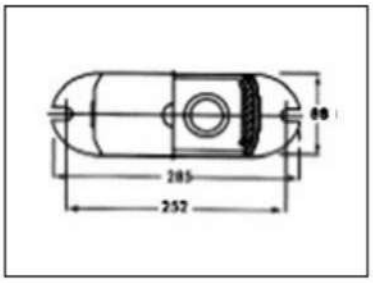


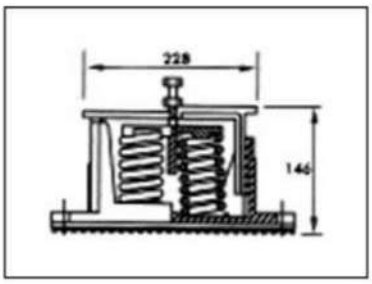


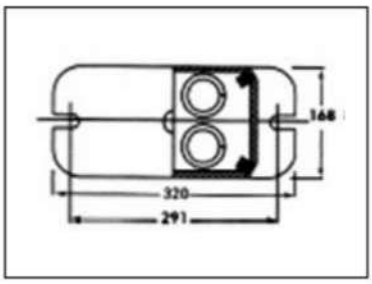












Product Code	Colour Code	Rated Load (mm)	Deflection (mm)
SECS 060	BLUE	60	25
SECS 100	GREEN	100	25
SECS 160	ORANGE	160	25
SECS 200	RED	200	25
SECS 250	PURPLE	150	25
SECS 300	GREY	300	25
SECS 400	ORANGE	400	25
SECS 500	BROWN	500	25
SECS 600	BLACK	600	25
SECS 800	RED	800	25
SECS 1050	WHITE	1050	25
SECS 1250	GREEN	1250	25
SECS II 600	GREY	6000	25
SECS II 800	ORANGE	800	25
SECS II 1000	BROWN	1000	25
SECS II 1200	BLACK	1200	25
SECS II 1600	RED	1600	25
SECS II 2100	WHITE	2100	25
SECS II 2500	GREEN	2500	25
SECS IV 1200	GREY	1200	25
SECS IV 1600	ORANGE	1600	25
SECS IV 2000	BROWN	2000	25
SECS IV 2400	BLACK	2400	25
SECS IV 3200	RED	3200	25
SECS IV 4200	WHITE	4200	25
SECS IV 5000	GREEN	5000	25

Compliance – spring designed according to BS 1726 (PART 1): 1987 and recommendations made by SAE (US)

OPEN SPRING MOUNTINGS

This unique range of open spring mounting uses an integral rubber and fixing of the spring which sets them apart from all other designs. Loose spring and plats are now history and high frequency and noise attenuation is provided regardless of whether rubber seating pad is used or not.

Originally designed for use with type IPF inertia pouring frames the mountings are now widely used to isolate vibration from every conceivable type of rotating and reciprocating machine. Some examples being air handing units axial and centrifugal fans, low level pipe work. Ductwork condensing units, pumps generating sets, chillers, etc. where control of transient motion is required, Open spring mountings can be used in conjunction with our viscous dampers type.

DESIGN FEATURES:

Unique expanding rubber and fixing of spring which also provides high frequency attenuation Spring with 50% overload capacity.
Can be bolted to supporting structure or free standing on 6 mm thick rubber pad.
Fully height adjustable
Zinc plated metals
No snubbing gives maximum efficiency.

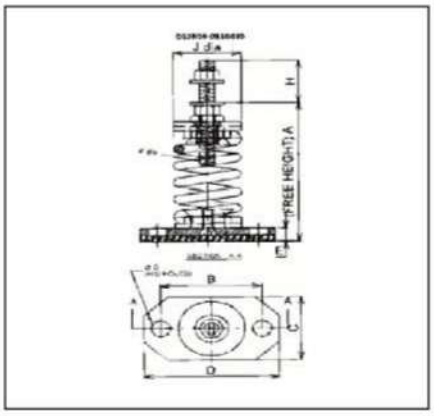
Size	Load range (kg)	Nominal Deflection (mm)
SEOS25	30-2300	25
SEOS50	510-1300	50

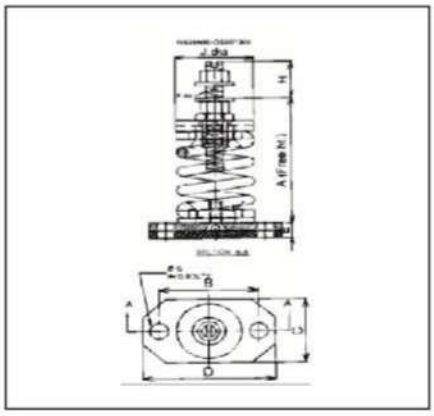
ISOLATION EFFICIENCY AT TYPICAL MACHINE SPEEDS:

M/C Speed (rpm)	Efficiency %		
	15 mm DEFL	25 mm DEFL	50 mm DEFL
300	Do not use	34.0	75.2
500	68.7	83.3	92.3
150	88.1	93.2	96.7
1000	93.7	96.3	98.2
1200	95.5	97.4	98.7
1500	97.3	98.4	99.2
1750	98.0	99.8	99.4
2000	98.5	99.1	99.5

These above figures are theoretical values only based on the vertical natural frequency of the spring system assuming in infinity stiff structural supports. The effects of high frequency spring coil resonances on low frequency performance are also ignored.

Due to policy of continual improvement, the specifications are subject to change without prior notice.
Measurements are subject to 5% tolerance.
To achieve good sound suppressions do not over load fitting.
Compliance – Springs designed according to BS 1726 (Part 1) : 1987 and recommendations made by SAE (US)

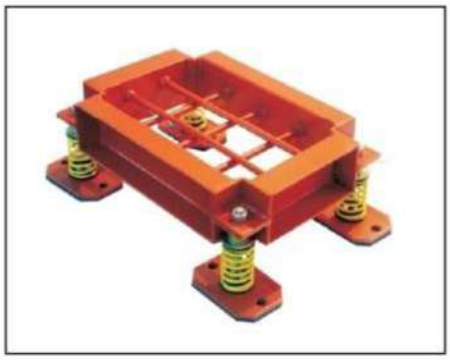




Product code	Colour code	Rated Load (kg)	Deflection at rated load	Dimensions (mm)								
				A	B	C	D	E	F	G	H	J
SEOS25/30	YELLOW	30	25									
SEOS25/60	GREEN	60	25									
SEOS25/100	BLUE	100	25	115	85	70	110	10	M10	10	20	55
SEOS25/160	WHITE	160	25									
SEOS25/250	RED	250	25									
SEOS25/200	RED	200	25									
SEOS25/300	PURPLE	300	25									
SEOS25/400	GREY	400	25									
SEOS25/500	ORANGE	500	25	160	110	100	140	11	M16	12	27	75
SEOS25/600	BROWN	600	25									
SEOS25/700	ORANGE	700	25									
SEOS25/800	BLACK	800	25									
SEOS50/100	YELLOW	100	50									
SEOS50/200	GREEN	200	50									
SEOS50/300	BLUE	300	50	188	110	100	140	11	M16	12	27	75
SEOS50/400	WHITE	400	50									
SEOS50/500	BLACK	500	50									
SEOS25/650	YELLOW	650	26									
SEOS25/850	GREEN	850	27	182	110	110	140	11	M16	12	27	75
SEOS25/1050	BLUE	1050	26									
SEOS25/1250	WHITE	1250	26									
SEOS25/1300	RED	1300	27									
SEOS25/1600	PURPLE	1600	25	225	210	150	250	18	M24	16	51	75
SEOS25/2000	GREY	2000	26									
SEOS25/2300	BROWN	2300	29									
SEOS50/510	PURPLE	510	51									
SEOS50/760	GREY	760	51	240	210	150	250	18	M20	16	42	72
SEOS50/1000	ORANGE	1000	50									
SEOS50/1300	BROWN	1300	53									

*Spring Stiffness is linear over its working range.

- Due to policy of continual improvement, the specifications are subject to change without prior notice.
- Measurements are subject to 5% tolerance.
- To achieve good sound suppressions do not over load fitting.
- Compliance – Springs designed according to BS 1726 (Part 1) : 1987 and recommendations made by SAE (US)



INTRODUCTION:

Inertia Base should be used where the machine to be vibration isolated produces large unbalanced forces which would result in excessive motion if supported directly on spring or rubber based isolators. They should also be used where the machine is subject to external forces or is inherently unstable.
Saketh's Inertia Base come in several standard sizes as listed in our catalogue. However these bases can also manufactured to any size and specifications, even for heavier and more complex vibration isolation would normally recommend 6 isolators or more for exceptionally large bases.

EXAMPLES OF EQUIPMENT REQUIRING INERTIA BASE ARE AS FOLLOWS:-

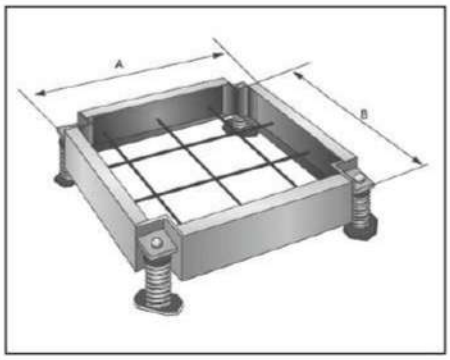
Reciprocating Compressors
Diesel Generating Sets
Engine / Dynamometer Test Rigs
Refrigeration Plants
Pumps (Particularly Belt Driven Types)

FEATURES:-

Fully welded steel construction with integral concrete reinforcement fixed at 40 mm above bottom of frame.
Recessed height reducing corner brackets designed to accept standard Saketh's type SEOS open spring mountings.
Range of standard size frames available in three thicknesses 150, 200, 300 & 350 mm.
Frame thicknesses not less than L/12 where 'L' is the longest side of the frame.
Finished with a single coat of red oxide primer on external surface only.

Due to policy of continual improvement, the specifications are subject to change without prior notice.
Measurements are subject to 5% tolerance.
To achieve good sound suppressions do not over load fitting.

TECHNICAL SPECIFICATIONS



ORDERING INFORMATION REQUIRED:-

- Equipment Model / Make
- HP/ RPM Of motor
- Static weight of equipment.
- Operating / Dynamic weight of equipment
- Outside Dimensions L XB XH
- Concrete Plinth Y/N.
- Height / Space constraint if any
- Required Deflection offspring(25 mm /50mm)
- Location- Ground / Roof / Basement.

NOTES:

Frame weights include concrete density at 2400 kg/m ^{3} and mounting selections are base allowing 50 % additional weight for the equipment to be supported Nominal 25 mm deflection type (open Spring Isolators) have been listed, however the exact deflection will vary depending on the applied load. When ordering bases should be specified as follows – 150 – 600 X 900 other size .Type and Thickness required and plan dimensions commencing with smallest length. Mounting should also be listed e.g. "25/100 – BULE"

IMPORTANT:

The equipment should be located on the base such that the load is evenly distributed over the 4 mountings. Equipment and ancillary parts should not overhang frame and hold down 100 mm from the outer edge of the bolts must not be at a distance less than base.

All the connections to the equipment should incorporate flexible sections and pipe work etc. must be independently supported.

Concrete plinth if any should be at least 200 mm more than the size of base in all directions. In case of installation of snubbers it should be increased to 300 mm.

AVAILABLE FRAME SIZES:

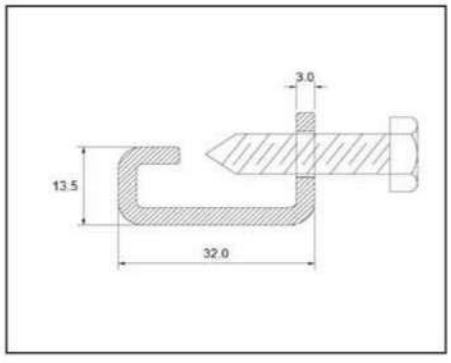
Sr. No	Frame Size	Thickness Available		
1	600 X 600	50 MM	100 MM	150 MM
2	600 x 750	50 MM	100 MM	150 MM
3	600 x 900	50 MM	100 MM	150 MM
4	600 x 1200	50 MM	100 MM	150 MM
5	600 x 1500	50 MM	100 MM	150 MM
6	700 x 700	50 MM	100 MM	150 MM
7	700 x 900	50 MM	100 MM	150 MM
8	700 x 1200	50 MM	100 MM	150 MM
9	700 x 1400	50 MM	100 MM	150 MM
10	700 x 1600	50 MM	100 MM	150 MM
11	800 x 800	50 MM	100 MM	150 MM
12	800 x 1000	50 MM	100 MM	150 MM
13	800 x 1200	50 MM	100 MM	150 MM
14	800 x 1600	50 MM	100 MM	150 MM
15	1200 x 1600	50 MM	100 MM	150 MM
16	800 x 1800	50 MM	100 MM	150 MM
17	900 x 1800	50 MM	100 MM	150 MM
18	1000 x 1000	50 MM	100 MM	150 MM
19	1000 x 1200	50 MM	100 MM	150 MM
20	1000 x 1500	50 MM	100 MM	150 MM
21	1000 x 1700	50 MM	100 MM	150 MM
22	1000 x 2000	50 MM	100 MM	150 MM
23	1200 x 2200	50 MM	100 MM	150 MM

NOTE : - Any non standard siz inertai base can be manufacture suitable to pump & motor assembly.
- Selection of vibration isolators is base on motor & pump weigh.

RUBBER HANGER

Product code	Point Load Kgs	Deflection mm	Rod Size mm
SERH10	10	8	10
SERH20	20	8	10
SERH30	30	8	10
SERH50	50	8	10
SERH70	70	10	10
SERH120	120	10	10

40 MM G CLAMP



BOLT: M10 X 25 MM

MATERIAL: Carbon Steel

THICKNESS: 3.0 MM

FINISH: Electrogalvanized

DIMENSIONS: Mention in above drawing

DOCT MOUNT

- Duct Hanger consist of a resilient rubber mount held between two plated steel caps
- For uniform distribution of load.If has an integral extended rubber sleeve which prevents direct
- Metal-to-metal contact,thereby minimising transmission of noise and vibration.

TYPICAL APPLICATIONS

SUSPENSION OF

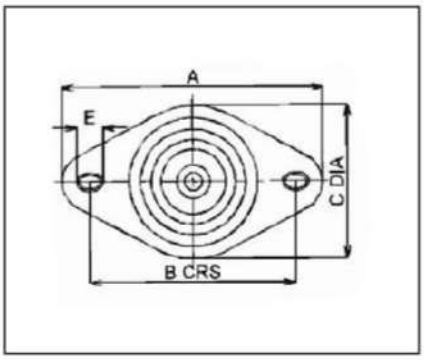
- Fan Coil Units
- Pipes
- Ducts
- Brackets
- Light Weight Equipment

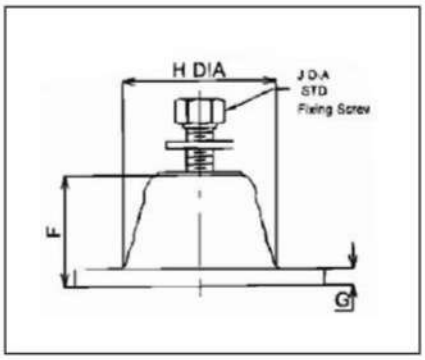
FLOOR MOUNTING OF

(using rubber element only)

- Refrigerators
- Domestic Appliances
- Industrial Equipments

PRODUCT CODE	POINT LOAD DEFLECTION		ROD SIZE
	Kgs	mm	
SEDM-S	50	4	10
SEDM-B	100	4	10





SETM rubber mountings are designed to provide superior attenuation of medium to high frequency vibration and noise emanating from wide range of motor driven machines particularly axial and centrifugal fans, high resilience rubber with low dynamic to static stiffness ratio ensures maximum efficiency, good creep performance and long service life.

DESIGN FEATURES:

Moulded in first grade natural rubber with integral steel base and upper fixing boss.
Also available with oil & environment resistant durable neoprene/Nitrile Rubber.
Manufactured in three sizes, each available in three rubber compounds identified by a colour spot.
Static deflections of up to 8mm with loads from 5kg to 400 kg.

TYPICAL APPLICATIONS:

Axial and Centrifugal Fans
Air Handling Units
Air Conditioning equipments
Packaged Air Conditioners
Floating Floors
Generators & Mobile Equipments
Pumps & Refrigeration Plants
Rotary and Multi Cylinder Compressors.

NOTE: Turret mountings should not be used on machines exhibiting high out of balance forces without restraining bolt.

Product Code	Colour Code	Rate load	Deflection at Rate	Nominal Dimension (mm)									Approx Wt. (kg)
				A	B	C	D	E	F	G	H	J	
SETM 100.Y	YELLOW	28											
SETM 100.B	BLUE	50	6	80	57	45	9	12	32	5	41	M8 X 20	0.11
SETM 100.R	RED	80											
SETM 101.Y	YELLOW	110											
SETM 101.B	BLUE	180	8	95	71	60	9	14	45	5	56	M10 X 25	0.25
SETM 101.R	RED	280											
SETM 102.Y	YELLOW	150											
SETM 102.B	BLUE	260	8	150	115	86	11	22	70	6	82	M12 X 30	0.73
SETM 102.R	RED	400											

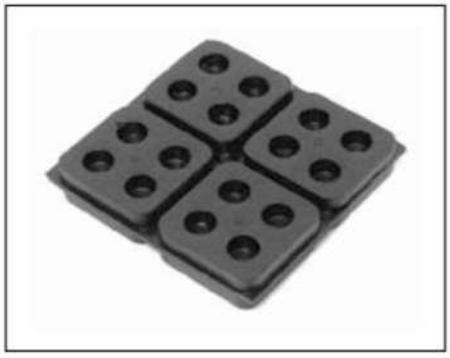
Due to policy of continual improvement, the specifications are subject to change without prior notice.
Measurements are subject to 5% tolerance.
To achieve good sound suppressions do not over load fitting

RIBBED MOUNTING PAD

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.

Size (Inches)
3/8'' x 18'' x 18''
3/8'' x 12'' x 12''
3/8'' x 8'' x 8''
3/8'' x 6'' x 6''
3/8'' x 4'' x 4''
3/8'' x 3'' x 3''



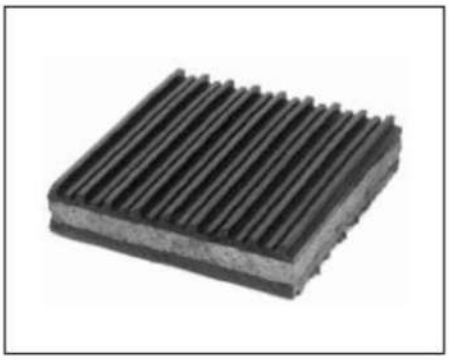
WAFFLE PADS

Specifications:

Designed within built suction cups.
Easy Cut design without tools allows job site flexibility
No need for bolting.
Easy field Installation.

Size(Inches)
3/4'' x 18'' x 18''
3/4'' x 12'' x 12''
3/4'' x 8'' x 8''
3/4'' x 6'' x 6''
3/4'' x 4'' x 4''
3/4'' x 3'' x 3''

Due to policy of continual improvement, the specifications are subject to change without prior notice.
Measurements are subject to 5% tolerance.
To achieve good sound suppressions do not over load fitting.

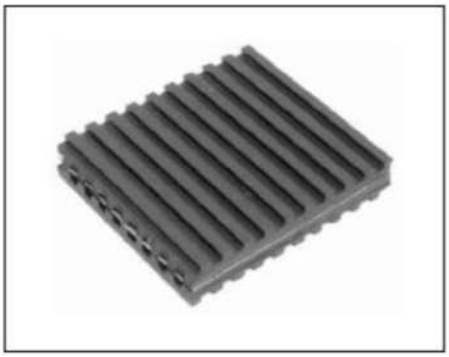


CORK SANDWICH PADS

Specifications:-

- Cork sandwich Pads are laminated pads having 1/2'' thick closegrained cork securely bonded between two layers of 1/4'' alternate low high ribbed Neoprene rubber pads.
- Offers highest level of sound attenuation and vibration isolation.
- No need for bolting.

Size (inches)
7/8" X 18" X 18"
7/8" X 12" X 12"
7/8" X 8"X 8"
7/8" X 6" X 6"
7/8" X 4" X 4"
7/8" X 3" X3"



METAL SANDWICH PADS

Specifications:-

Metal Sandwich Pads are constructed of a steel plate bonded Ribbed Anti Vibration Pads.
Designed for very high load capacity.

Size (inches)
7/8" X 18" X 18"
7/8" X 12" X 12"
7/8" X 8" X 8"
7/8" X 6" X 6"
7/8" X 4" X 4"
7/8" X 3" X 3"

Due to policy of continual improvement, the specifications are subject to change without prior notice.
Measurements are subject to 5% tolerance.
To achieve good sound suppressions do not over load fitting.

SINGLE ARC FLOATING FLANGE EXPANSION JOINT

This Rubber Expansion Joint is a totally effective Saketh's solution for unwanted vibration in heating and air conditioning systems. Available in the common HVAC, plumbing and Fire Fighting pipeline sizes, it is ideal for motion compensation, vibration elimination, and noise control and stress relief.

Manufactured to a fully moulded spherical design the style has a high pressure rating with the added benefit of a non-clogging, long radius Arch. available in Natural rubber and many different polymers like EPDM, Neoprene, and Butyl Having a wide range of flange drilling standards to your building services requirements.

This **Floating Flange is designed** as per the latest International Standards of FSA and EJMA (USA) are used all over the world. Further, the most beneficial advantage is that if replacement is required it can be replaced without distributing the welded flange due to floating / rotating flange design.

Product Code	Size I.D (mm)	Standard F/F length (mm)	Operating Condition				
			Axial composition (mm)	Elongation (mm)	Lateral (mm)	Angular Degrees	Expression Joints Style
SE-SAFF-2.5	65	150	13	12	13	15"	SI 400
SE-SAFF-03	80	150	13	12	13	15"	SI 400
SE-SAFF-04	100	150	16	12	16	15"	SI 400
SE-SAFF-05	125	150	16	12	16	15"	SI 400
SE-SAFF-06	150	150	16	12	16	15"	SI 400
SE-SAFF-08	200	150	16	12	16	15"	SI 400
SE-SAFF-10	250	200	16	15	16	15"	SI 400
SE-SAFF-12	300	200	16	15	16	15"	SI 400
SE-SAFF-14	350	200	16	15	16	15"	SI 400

TEMPERATURE / PRESSURE RATINGS :-

Maximum Temperature Maximum Pressure Rating	115°C (Neoprene /EPDM) 16 bar
Working pressure depends on temperature and at higher temperature and at higher temperature , the pressure ratings are reduced slightly	

FLANGE DRILLING TO

BS table D/ E/ F ANSI B16.5 Class 125/ 150 BS 4504 / DIN 2501 or as per customer requirement

ELASTOMERS

Neoprene - Provides excellent resistance to oxidation, ozone and sunlight ageing. Good resistance to oil.

EPDM

Good for hot and cold water service and chemicals.

FLANGES

Expansion joints are furnished with zinc plated steel flanges.They rotate easily on the bellow which alloes for simple bolt alignment.

CONTROL UNITS

Tie rods and gusset plates are normally recommended and can be supplied along with the bellows.

WARNINGS :

Control unit must be used unless piping is properly anchored. When Expansion joints are installed pipelines or equipment carrying fluids and gases at a elevated temperatures and precautions should be taken to ensure proper installation and regular inspection . Care is required to protect personnel in the event of leakage or splash.

NOTE : Maximum pressure rating is based on 40 C operating temperature.

- Due to policy of continual improvement, the specification are subject to change without prior notice.
- Measurements are subject to 5% tolerance.

DOUBLE ARC FLOATING FLANGE EXPANSION JOINT

This Rubber Expansion Joint is a totally effective Saketh's solution for unwanted vibration in heating and air conditioning systems. Available in the common HVAC, Plumbing and Fire Fighting pipeline sizes, it is ideal for motion compensation, vibration elimination, and noise control and stress relief.

Manufactured to a fully moulded spherical design the style has a high pressure rating with the added benefit of a non-clogging, long radius Arch. Available in Natural rubber and many different polymers like EPDM, Neoprene, Nitrile, and Butyl having a wide range of flange drilling standards to your building services requirements.

This **Floating Flange is designed** as per the latest International Standards of FSA & EJMA (USA) which are used all over the world. Further, the most beneficial advantage is that if replacement is required it can be replaced without distributing the welded flange due to floating/rotating flange design.

Size I.D (mm)	Standard F/F length (mm)	Operating Condition				Expression Joints Style
		Axial Compⁿ (mm)	Elongation (mm)	Lateral (mm)	Angular Degrees	
25	150	13	12	13	15°	SI 400
32	150	13	12	13	15°	SI 400
40	150	13	12	13	15°	SI 400
50	150	13	12	13	15°	SI 400
65	150	13	12	13	15°	SI 400
80	150	13	12	13	15°	SI 400
100	150	16	12	16	15°	SI 400
125	150	16	12	16	15°	SI 400
150	150	16	12	16	15°	SI 400
200	150	16	12	16	15°	SI 400
250	200	16	15	16	15°	SI 400
300	200	16	15	16	15°	SI 400
350	200	16	15	16	15°	SI 400

TEMPERATURE / PRESSURE RATINGS :-

Maximum Temperature Maximum Pressure Rating	115°C (Neoprene /EPDM) 16 bar
Working pressure depends on temperature and at higher temperature and at higher temperature , the pressure ratings are reduced slightly	

FLANGE DRILLING TO

BS table D/ E/ F ANSI B16.5 Class 125/ 150 BS 4504 / DIN 2501 or as per customer requirement

ELASTOMERS

Neoprene - Provides excellent resistance to oxidation, ozone and sunlight ageing. Good resistance to oil.

EPDM

Good for hot and cold water service and chemicals.

FLANGES

Expansion joints are furnished with zinc plated steel flanges.They rotate easily on the bellow which alloes for simple bolt alignment.

CONTROL UNITS

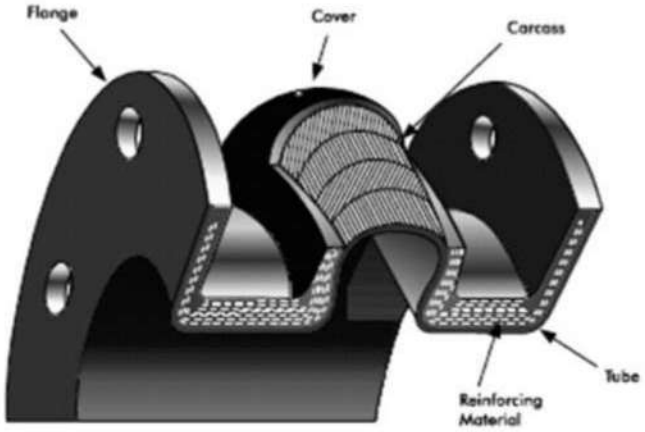
Tie rods and gusset plates are normally recommended and can be supplied along with the bellows.

WARNINGS :

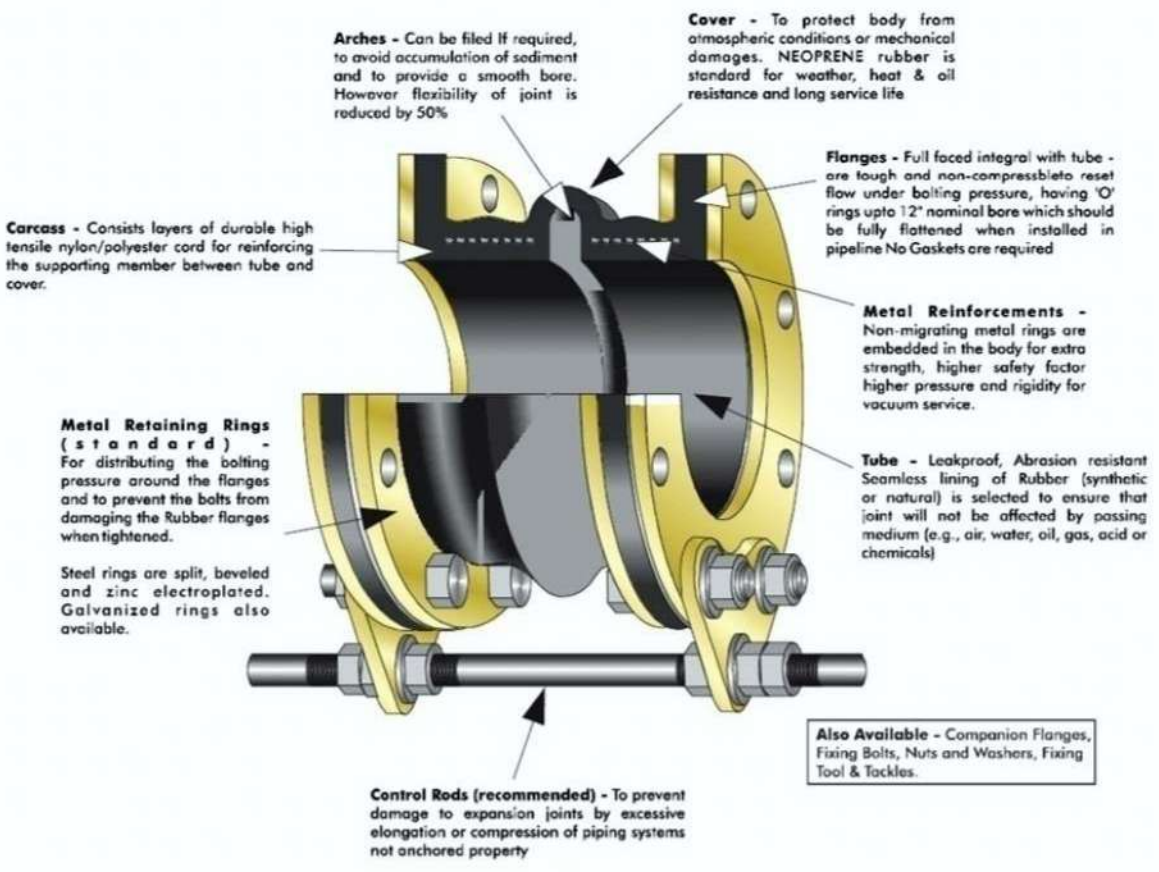
Control unit must be used unless piping is properly anchored. When Expansion joints are installed pipelines or equipment carrying fluids and gases at a elevated temperatures and precautions should be taken to ensure proper installation and regular inspection . Care is required to protect personnel in the event of leakage or splash.

NOTE : Maximum pressure rating is based on 40°C operating temperature.

- Due to policy of continual improvement, the specification are subject to change without prior notice.
- Measurements are subject to 5% tolerance.

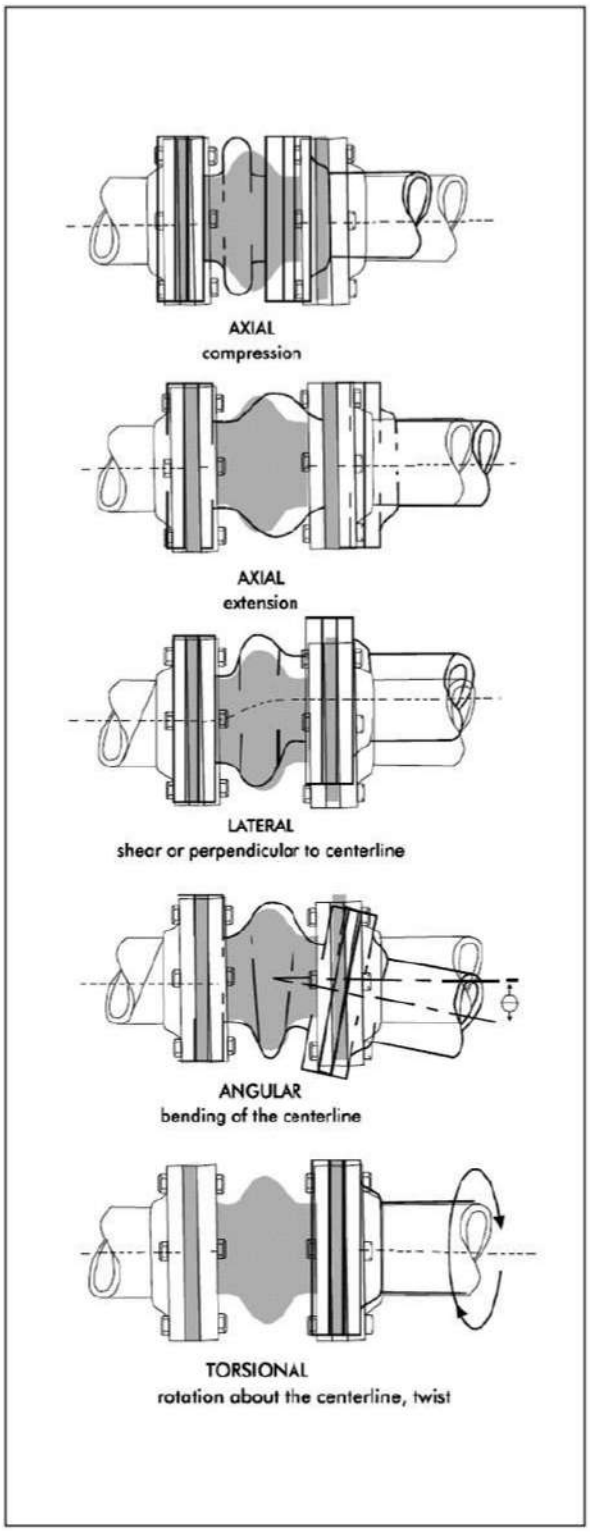


*** Other Polymers available on request.**



- Due to policy of continual improvement, the specifications are subject to change without prior notice.
- Measurements are subject to 5% tolerance.
- To achieve good results do not over load fitting more than designed parameters as per drawing / catalogue

HOW A RUBBER EXPANSION JOINTS WORKS



The purpose of an Expansion joints in general, regardless of design or materials of construction, is to provide a point of flexibility in a piping or duct system in order to absorb the growth of the piping due to thermal changes in the media and/or the environment, and to absorb the dynamic movements of machinery, buildings and structures that the piping is attached to or a part of.

The Rubber Expansion joints, because of the non-metallic nature of its construction, offers the piping and ductwork designer advantages within the temperature and pressure ranges of these joints, which cannot be matched by all metal expansion, joints.

Consisting of flanged ends and a flexible section, much the same as a flanged metal bellows, the rubber expansion joints can absorb within its free length more movements, particularly lateral, than any other joint of similar overall size and pressure rating.

The flexible section of a Rubber Expansion Joints is most often a single convolution, which, because of the inherent flexibility of the material, can accept large lateral movements with low force, phenomena which requires multiple convolutions in metal bellows. During axial and Angular movements, the rubber convolution deflects much the same way that the metal convolution does. The limits of these motions are determined by the geometric shape and size of the convolution and the inherent pressure resisting capacity of the design.

The manner in which the pressure loads are resisted in a Rubber Expansion joints is the major difference between Rubber and Metal Bellows. Circumferential (hoop) loads due to pressure are carried by the convolution itself in metallic bellows. In a Rubber Expansion joint, the convolution is basically incapable of resisting pressure by itself, but is supported by the adjacent rubber tube with its internal fabric and/or fabric – metal reinforcing, or by the attachment flanges themselves.

All Saketh's Units have integrally moulded flanges, sized and drilled to much standard flanges. All Rubber Expansion joints require metallic split retaining rings behind the flanges to back up protect the rubber integral flanges. Control rods must be used to protect expansion joints from excessive movement if piping system is not properly anchored and are normally recommended for most piping installations

- Due to policy of continual improvement, the specifications are subject to change without prior notice.
- Measurements are subject to 5% tolerance.
- To achieve good results do not over load fitting more than designed parameters as per drawing / catalogue

FLEXIBLE PIPE CONNECTORS- TRIANGULAR TYPE

APPLICATION:

- Inlet and outlet of fan coil Units, Air Handling Units , Chillers and Condensers.
- Air Suction and discharge of pumps.
- Intervals in Chilled water piping .
- Installation of flexible Pipe Connectors is recommended to allow for axial pipe movement due to thermal expansion or contraction, thereby protecting the building structure from damaging stress. These connectors also help to isolate the low and high frequency vibration transmitted through pipe walls.
- The triangular flange design offer much better reliability, safety and convenience as compared to union type connectors.
- Allows for both Axial and Horizontal movement.
- Unique pressurized steel wire strand for addiitional safely.

CONSTRUCTION FEATURES:

Bellow	: Neoprene / EPDM
Reinforcement	: Nylon cord fabric
Pressurized Ring	: Steel Wire Strand
Flanges	: Forged Steel, Threaded to BS 21. NPT on request
	: Epoxy powder coated for corrosion resistance
	: Nut and bolts electrogalvanized.
	: Floating triangular thread design

TECHNICAL DATA:

Working Pressure	: 290 psi / 20 Bar
Temperture Range	: -15 deg C to 115 deg C .
Working Media	: Water, Compressed Air, Oil, Weak Acids / Alkalines

Product Code	Size inches	Axial Displacement		Length mm	Deflection Angle
		Elongation	Compression		
SE-TFC–027	¾"	6	22	160	45
SE-TFC–034	1"	6	22	160	45
SE-TFC–042	1 ¼"	6	22	160	45
SE-TFC–048	1 ½"	6	22	160	45
SE-TFC–060	2"	6	22	180	45

FLEXIBLE PIPE CONNECTOR- UNION TYPE

APPLICATION:

- Inlet and outlet of fan coil Units, Air Handling Units , Chillers and Condensers.
- Air Suction and discharge of pumps.
- Intervals in Chilled water piping .
- Installation of flexible Pipe Connectors is recommended to allow for axial pipe movement due to thermal expansion or contraction, thereby protecting the building structure from damaging stress. These connectors also help to isolate the low and high frequency vibration transmitted through pipe walls.
- Allows for both Axial and Horizontal movement.
- Unique pressurized steel wire strand for addiitional safely.

CONSTRUCTION FEATURES:

Bellow	: Neoprene / EPDM
Reinforcement	: Nylon cord fabric
Pressurized Ring	: Steel Wire Strand
Flanges	: Forged Steel, Threaded to BS 21. NPT on request
	: Epoxy powder coated for corrosion resistance
	: Nut and bolts electrogalvanized.
	: Floating triangular thread design

TECHNICAL DATA:

Maximum Pressure	: 250 psi / 17 Bar
Burst pressure	: 650 psi / 45 bar
Temperature Range	: -15 deg C to 115 deg C.
Working Media	: Water Compressed Air, Oil , Weak Acids / Alkaline.
Vacuum	: 700 mm Hg

CONNECTION : FEMALE THREAD BOTH SIDES

Product Code	Size inches	Length mm	Axial displacement		Deflection Angle
			Elongation (mm)	Compression (mm)	
SE-UFC-15	1/2"	155	6	22	45
SE-UFC-20	3/4"	155	6	22	45
SE-UFC-25	1"	155	6	22	45
SE-UFC-30	1 1/4"	155	6	22	45
SE-UFC-40	1 1/2"	175	6	22	45
SE-UFC-50	2"	175	6	22	45
SE-UFC-65	2 1/2"	240	10	24	45

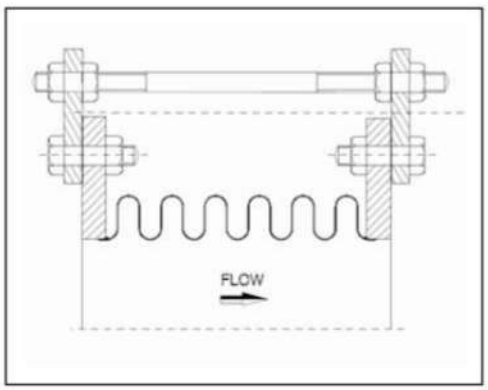
Bellows are a flexible piping element. The corrugation of the expansion joint is designed to be flexible in order to absorb pipe expansion and contraction due changes in temperature. The number of corrugation of bellows is decided according to the displacement amount and the expansionary and contracting force that the bellows have to absorb. Bellows have to be strong to the design pressure an operating pressure of piping and pressure and installation and they also have to be flexible to absorb thermal movement. The thrust force of the flow In the piping has to be buttressed by things other than bellows.

Saketh Industries bellows are fabricated from cylindrical tubes made of high ductility material. The cylindrical body is formed onto parallel corrugation which accommodates all basic movements without encountering wear and tear as associated with conventional mechanical devices. Bellows are designed and manufactures as per the latest additional of EJMA, ASME, GIS, BS, DIN, IS standards under the supervision of highly qualified team of engineers and technocrats.

To attain high flexibility and above average life expectancy, our Bellows are made from tested S.S. 316 / 321 / 304 stainless steel material. These bellows retain the flexibility when subject to internal pressure. Saketh's Industries Bellows have been their outstanding performance in a wide variety of application

- Due to policy of continual improvement, the specifications are subject to change without prior notice.
- Measurements are subject to 5% tolerance.
- To achieve good results do not over load fitting more than designed parameters as per drawing / catalogue

STAINLESS STEEL METALLIC EXHAUST BELLOW



Product Code Nominal Bore X Overall Length	Design Temperature Upto	Maximum Working Pressure (kg/cm^2)	Lateral movement Pressure (mm)	Axial movement Pressure (mm)
SSEB 6" X 200	600°C	20	20	±10
SSEB 6" X 250	600°C	20	40	±15
SSEB 6" X 300	600°C	20	60	±20
SSEB 8" X 200	600°C	20	20	±10
SSEB 8" X 250	600°C	20	40	±15
SSEB 8" X 300	600°C	20	60	±20
SSEB 10" X 200	600°C	20	20	±10
SSEB 10" X 250	600°C	20	40	±15
SSEB 10" X 300	600°C	20	60	±20
SSEB 12"X 200	600°C	20	20	±10
SSEB 12" X 250	600°C	20	40	±15
SSEB 12" X 300	600°C	20	60	±20
SSEB 14" X 200	600°C	20	20	±10
SSEB 14" X 250	600°C	20	40	±15
SSEB 14" X 300	600°C	20	60	±20
SSEB 16" X 200	600°C	20	20	±10
SSEB 16" X250	600°C	20	40	±15
SSEB 16" X 300	600°C	20	60	±20
SSEB 18" X 200	600°C	20	20	±10
SSEB 18" X 250	600°C	20	40	±15
SSEB 18" X 300	600°C	20	60	±20
SSEB 20" X 200	600°C	20	20	±10
SSEB 20" X 250	600°C	20	40	±15
SSEB 20" X 300	600°C	20	60	±20
SSEB 22" X 200	600°C	20	20	±10
SSEB 22" X 250	600°C	20	40	±15
SSEB 22" X 300	600°C	20	60	±20
SSEB 24" X 200	600°C	20	20	±10
SSEB 24" X 250	600°C	20	40	±15
SSEB 24" X 300	600°C	20	60	±20

- Metallic of standard Metallic Bellow SA 240 TP 321, SA 240 TP 304 also available.
- Material of End Flanges IS 2062 Grade 2 (Carbon Steel)
- Custom Made Bellows as per customer specification available for additional movements.
- End flanges as per customer s specification available.
- Accessories like nut bolts / gaskets / tie rods assembly / mating flanges available at extra cost.
- Compliance – Springs designed according to BS 1726 (Part 1) : 1987 and recommendations made by SAE (US)