

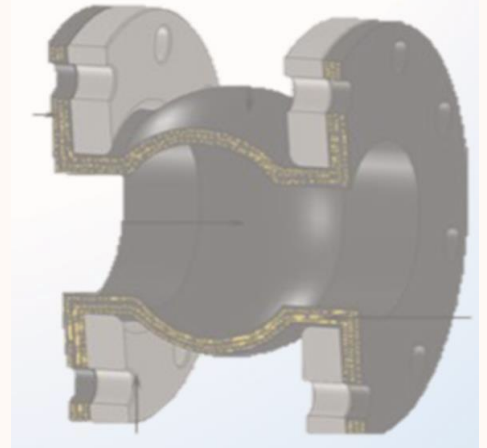


# **Hi- Tech Rubber Products**

# RUBBER EXPANSION JOINTS / FLANGES / GASKETS

## Full Face Rubber Expansion Joint

Full face type rubber expansion joints are moulded wide arch designed, complete with full face flanges made of steel and c/w Rubber Gaskets with multiple internal SS wires embedded between the bellow. Total rubber impregnated construction will extend service life. Steel Flanges on either side is a connector to the line system which also gives reinforcement and Strength, also prevents pushing out under pressure. All drilling standards are available with us. Any length (Face to Face) can be designed and manufactured according to your requirement.



## METAL FLANGES

A flange is an external or internal ridge for strength for attachment to another object, as the flange on the end of a pipe, steam cylinder, etc. Thus flanged wheels are wheels with a flange on one side to keep the wheels from running off the rails. There are many different flange standards to be found worldwide. To allow easy functionality and interchangeability, these are designed to have standardized dimensions. Common world standards include ASA/ANSI/ASME, PN/DIN, BS10, JIS/KS etc. Further, many of the flanges in each standard are divided into "pressure classes", allowing flanges to be capable of taking different pressure ratings.

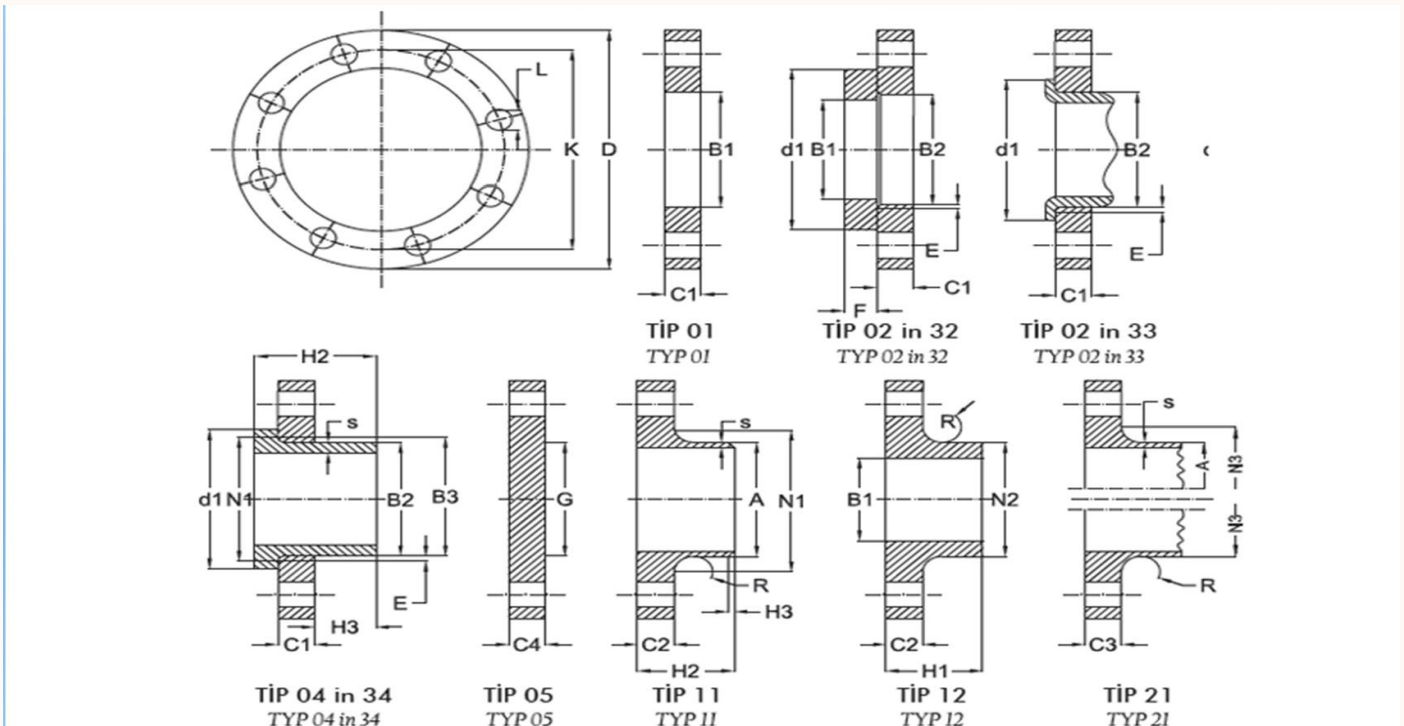
With the assistance of our production unit, we are providing a quality assured range of Rubber Gaskets. The offered gaskets are manufactured from high quality rubber, neoprene, silicone, nitrile (NBR), SBR, EPDM and Viton that are procured from some of the reliable sources of the industry. This entire range of Rubber Gaskets is used in various applications such as fluid restriction, weather insulation, vibration dampening, electrical absorption, noise reduction, packaging, cushioning due to its optimum performance, high tensile strength, accurate dimension and rigid construction.



# STANDARD LIST OF RUBBER EXPANSION JOINT

Nominal Diameter		Overall Length	Compressed & Extended Length	Allowable Movement (mm)				Operating Pressure	Vacuum
Imperial	Metric NB	mm	Extended	Axial Compression	Axial Extension	Lateral Deflection	Angular Deflection	KPA @ 80°C	mm Hg
1-1/2"	40	95	87-99	10	6	9	15°	1600	660
2"	50	105	99-110	10	7	10	15°	1600	660
2-1/2"	65	115	103-121	13	7	11	15°	1600	660
3"	80	130	118-133	15	8	12	15°	1600	660
4"	100	135	117-145	19	10	13	15°	1600	660
5"	125	170	152-180	19	12	13	15°	1600	660
6"	150	180	162-190	20	12	13	15°	1600	660
8"	200	205	180-220	25	16	14	15°	1600	660
10"	250	240	215-254	25	16	22	15°	1600	660
12"	300	260	235-274	25	16	22	15°	1600	660
14"	350	265	240-281	25	16	22	15°	1000	660
16"	400	265	240-281	25	16	22	15°	1000	660
18"	450	265	240-281	25	16	22	15°	1000	660
20"	500	265	240-281	25	16	22	15°	1000	660
24"	600	265	240-281	25	16	22	15°	1000	660

## METAL FLANGES USED IN EXPANSION JOINT



# STANDARD DIMENSION LIST OF METAL FLANGES

## ASPER EN 1092-1, PN 16 STANDARD

Nominal diameter DN	Mating dimensions					Outside diameter of neck	Bore diameters			Flange thickness				Chamber	Collar thickness	Diameter of shoulders	Length			Neck diameters			Corner radius	Neck thickness (preferred value)																			
	Outside diameter	Diameter of bolt circle	Diameter of bolt hole	Bolting																																							
	D	K	L	No	Size																				A	B1	B2	B3	C1	C2	C3	C4	E	F	G max	H1	H2	H3	N1	N2	N3	R	S
	Flange Type																																										
01, 02, 05, 11, 12, 13, 21					11 21* 34	01 12 32	02	04	01 02 04	11 12 13	21	05	02 04	32 34	05	12 13	11 34	11 34	11 34	12 13	21	11 12 13 21	11 34																				
10	90	60	14	4	M12	17,2	18,0	21	31	14	16	16	3	12	-	22	35	6	28	30	28	4	1,8																				
15	95	65	14	4	M12	21,3	22,0	25	35	14	16	16	3	12	-	22	38	6	32	35	32	4	2,0																				
20	105	75	14	4	M12	26,9	27,5	31	42	16	18	18	4	14	-	26	40	6	40	45	40	4	2,3																				
25	115	85	14	4	M12	33,7	34,5	38	49	16	18	18	4	14	-	28	40	6	46	52	52	4	2,6																				
32	140	100	10	4	M16	42,4	43,5	47	59	10	10	10	5	14	-	30	42	6	56	60	60	6	2,6																				
40	150	110	18	4	M16	48,3	49,5	53	67	18	18	18	5	14	-	32	45	7	64	70	70	6	2,6																				
50	165	125	18	4	M16	60,3	61,5	65	77	20	20	20	5	16	-	34	48	8	75	84	84	6	2,9																				
65	185	145	18	8	M16	76,1	77,5	81	96	22	22	22	6	16	55	38	52	10	90	104	104	6	2,9																				
80	200	160	18	8	M16	88,9	90,5	94	114	24	24	24	6	18	70	40	58	12	105	118	120	8	3,2																				
100	235	190	22	8	M20	114,3	116,0	120	138	26	24	24	6	20	90	44	65	12	134	145	142	8	3,6																				
125	270	220	26	8	M24	139,7	141,5	145	166	28	26	26	6	22	115	48	68	12	162	170	162	8	4,0																				
150	300	250	26	8	M24	168,3	170,5	174	194	30	28	28	6	24	140	52	75	12	192	200	192	10	4,5																				
200	375	320	30	12	M27	219,1	221,5	226	250	36	34	36	6	28	190	52	88	16	244	260	254	10	6,3																				
250	450	385	33	12	M30	273,0	276,5	281	312	42	38	38	8	30	235	60	105	18	306	312	312	12	7,1																				
300	515	450	33	16	M30	323,9	327,5	333	368	48	42	42	8	34	285	67	115	18	362	380	378	12	8,0																				
350	580	510	36	16	M33	355,6	359,5	365	418	54	46	46	8	36	330	72	125	20	408	424	432	12	8,8																				
400	660	585	39	16	M36	406,4	411,0	416	472	60	50	50	8	42	380	78	135	20	462	478	498	12	11,0																				
450	685	610	39	20	M36	457,0	462,0	467	510	66	57	57	8	46	425	84	135	20	500	522	522	12	12,5																				
500	755	670	42	20	M39	508,0	513,5	519	572	72	57	57	8	50	475	90	140	20	562	576	576	12	14,2																				
600	890	795	48	20	M45	610,0	616,5	622	676	84	72	72	8	54	575	100	150	20	666	686	686	12	16,0																				



# GROMMETS AND BELLOWS

Grommets are Inserts made of Rubber or otherwise know as Custom Elastomeric Inserts used to protect or cover the drilled holes.



We are manufacturing Grommets for customized requirements for different application especially in Electrical Components, Transformers, Switch Gears, Aero Space applications, Electronic Equipment's etc.



These grommets are designed to protect wires and cables while passing through a panel, helps eliminate sharp edges so your wires are protected and add aesthetic value to your application and also grommets are used as bush for noise and vibration dampening in a range of application.

# INTRODUCTION FOR BELLOWS

- ❖ Hi - Tech designs and manufacture a wide range of Rubber Bellows for different application.
- ❖ Hi - Tech bellows are designed to protect the equipment against Dust, Water, Oil , Grease, Spatter and also from direct pressure



- ❖ Technoflex are manufacturing the bellows by customers specific application requirements. By using special manufacturing technology and precisely selected material to provide the best protection for your equipments.



# **ELASTOMERIC BEARING PADS**

## **PLAIN AND LAMINATED**

Elastomeric bearing pads Plain and Laminated which are manufactured wholly or partially from an elastomer (rubber). It has the ability of either fully or partially to regain the shape once deflected. Such bearings allow the movement between the load and its supports.

### **Why Elastomeric Bearing Pads ?**

Elastomeric Bearing Pads both plain and laminated requires practically no maintenance as well as much easier to fix than any other bearing used.

Unlike other materials, Elastomeric Bearing Pads has little or no effect on low temperature stiffening when the thermal contraction of bridge deck is at maximum.

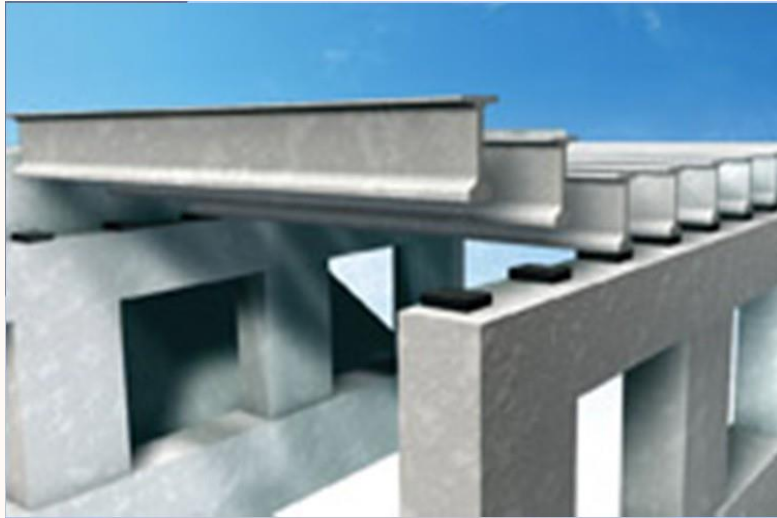


### **General Design & Requirements :**

Bearing shall be furnished with the design dimensions within the tolerances. They shall be composed of the specified elastomer type and hardness shall be adequate for the specified design load; shall be tested at the appropriate level and shall satisfy any special requirements of the designer.



In the absence of more specific information, bearings shall be 50-durometer elastomer, adequate for 1,000 psi design compression stress.



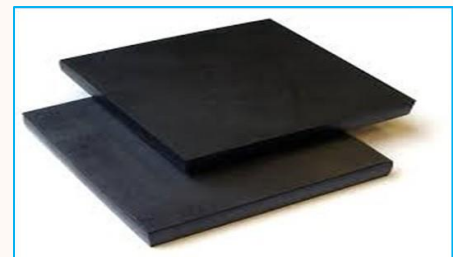
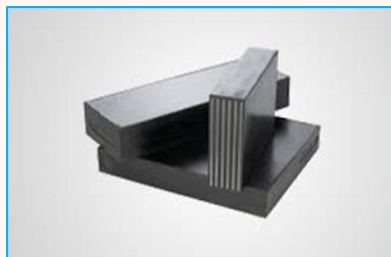
Plain bearing pads shall be moulded individually, or cut from previously moulded strips or slabs, or extruded and cut to length. Cutting shall produce a smooth surface and no heating of the elastomer will be done.

Suitably compounded and correctly installed Elastomeric Bearing Pads can have higher functional efficiency.

### **Material**

Properties of the Elastomer - The elastomer compound used in the construction of these bearings shall contain only virgin crystallization resistant poly Chloroprene (neoprene) or virgin natural poly Isoprene (natural rubber) as the raw polymer.

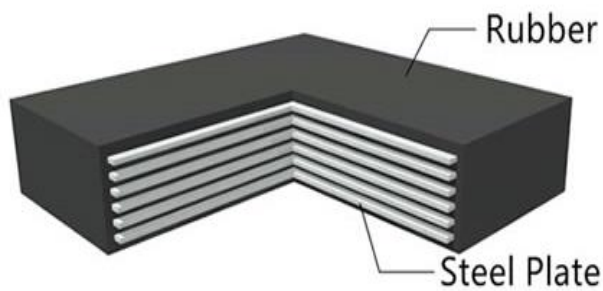
All materials shall be new with no reclaimed material incorporated in the finished bearing. The elastomer compound shall meet the minimum requirements of below mentioned table.





## ELASTOMERIC BEARING PADS LAMINATED

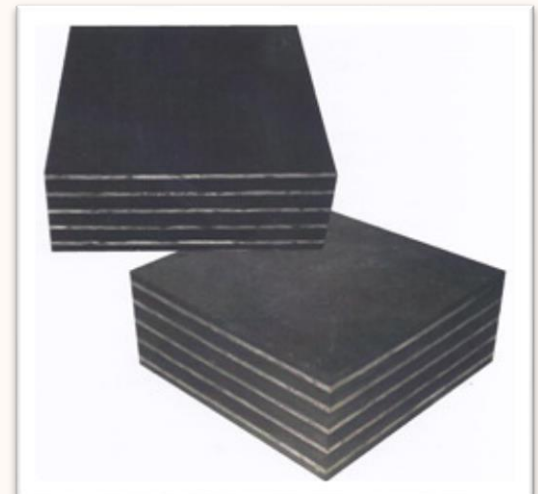
Laminated elastomeric bearing pad, one type of reinforced elastomeric bearings, is made of multi-layer rubber and reinforced with steel plate through sulfuration and adhesion. Laminated Bearing Pads shall be molded using state-of-art- technique and cut to length. The reinforced material has to be specified by the vendor.



- ❑ The bearing pads shall be constructed in conformance with the American Association of State Highway and Transportation Officials (AASHTO), DIN and ASTM Specifications

### **Features:**

- ❑ loads and external forces.
- ❑ Meets AASHTO, DIN and ASTM Specifications
- ❑ High accommodation of movements caused by expansion, contraction, concrete creep effects and shrinkage, etc.
- ❑ Allow for rotations of the bearing in any horizontal axis caused by deflections or misalignments.
- ❑ Absorb vibrations and isolate sounds.
- ❑ Great traction resistance.
- ❑ Corrosion free in that the steel plates are embedded in the rubber without contact of air.



## Applications:

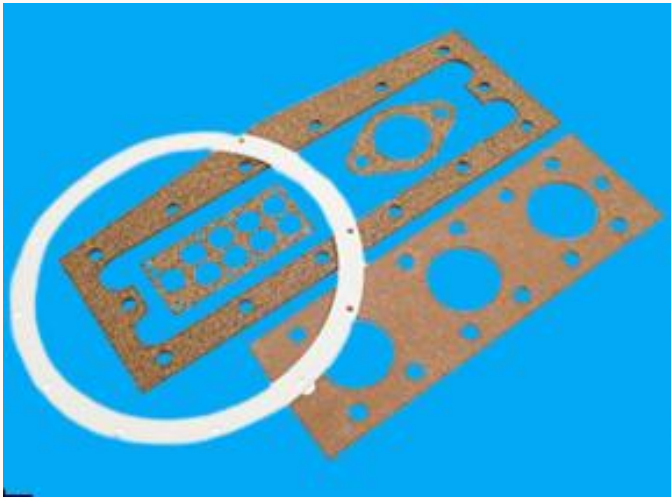
- ❖ Bridges with small displacements and short span.
- ❖ Load bearings of building structures.
- ❖ Flyovers.

## ELASTOMERIC BEARINGS PHYSICAL PROPERTIES

SL NO	TEST PARAMETERS	UNIT	TEST METHOD	SPECIFIC VALUE		
1	PHYSICAL PROPERTIES					
a	Hardness	Shore A	ASTM D 2240	50 ± 5	60 ± 5	70 ± 5
b	Tensile Strength , Min	Psi	ASTM D 412	2500	2500	2500
c	Ultimate Elongation , Min	%	ASTM D 412	400	350	300
2	Resistance to heat ageing ( Properties after 70 hrs , exposure at 212°F)					
a	Change in Hardness , Max	Shore A	ASTM D 573	+ 15	+ 15	+ 15
b	Change in Tensile Strength Max	%	ASTM D 573	-15	-15	-15
c	Change in Ultimate ElongatioBreak , Max	%	ASTM D 573	-40	-40	-40
3	Compression set at 212°F for 22 hrs at 25% deflection Max	%	ASTM D 395 Method B	35	35	35
4	Ozone Resistance , condition after exposure to 100 pphm ozone in air for 100 hrs at 100°F ( sample at 20% strain), Mounting Procedure D 518 Procedure A		ASTM D 1149	NO CRACKS	NO CRACKS	NO CRACKS
5	Adhesion, Bond made during Vulcanaisation	lbs/ Inch	ASTM D 249, B	40	40	40
6	Low Temperature Test , Brittleness at -40°F		ASTM D 746, Procedure B	No Failure	No Failure	No Failure

# CORK GASKET

Cork Gasket is a mechanical seal which fills the space between two or more mating surfaces, generally to prevent leakage from or into the joined objects while under compression. We manufacture cork gaskets for oil cooled transformers, and seals for electrical switchgear.



*Cork Gasket is the only solid which, when compressed on one side, does not increase in volume on another; and as a result of its elasticity it is able to adapt, for example, to variations in temperature and pressure without suffering alterations.*

**Various long term adverse effects on dielectric integrity such as:**

- *Excellent oil and heat resistant*
- *very wear resistant.*
- *Restrict bubble generation in the solid insulation during overloads.*



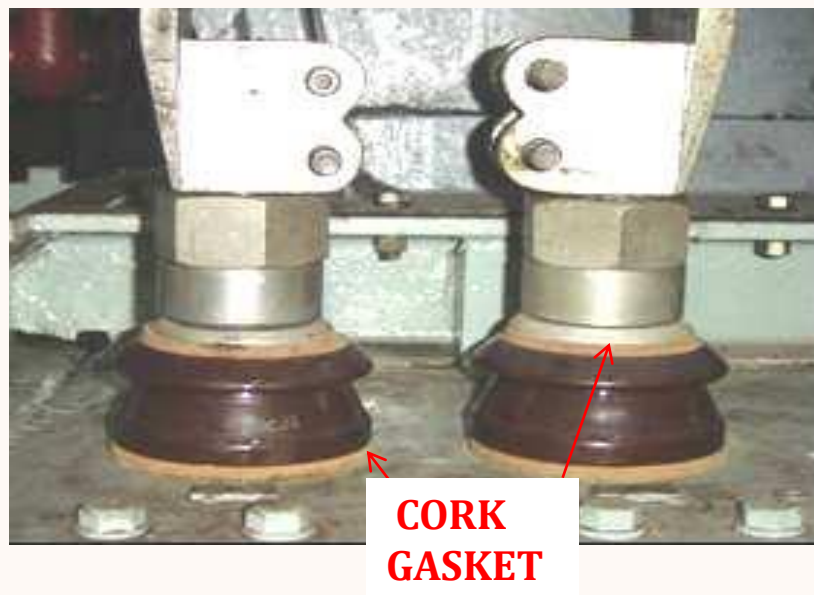
Cork Gaskets are very high performance sealing material designed to resist oils, fuels and gases. Different types of rubberized cork gaskets are used in the conventional and 3 phase electric locomotives mainly in transformer tank and bushings.



## Advantages

- Tolerant to extreme surface finish conditions and high out-of-flatness flanges.
- Very low side-flow improving crush-out resistance.
- Conformable to flanges with higher “out-of-flatness” values, such as stamped steel and plastic covers.
- Lower bolt torques possible
- Smaller or Lower grade fasteners.
- Allows for components with less mass and more distortion.

The problem of oil leakage of transformer bushings and electrical switchgears are mainly due to the uses non specified gaskets during assembly.



The Cork Gasket is an ideal sealant for various types of applications, due to cork's recovery properties, which allows Rubberized Cork products to regain its original shape after compression, keeping its former shape, sealing and insulating properties. Cork is the only solid which, when compressed on one side, does not increase in volume on another; and as a result of its elasticity it is able to adapt, for example, to variations in temperature and pressure without suffering alterations.

# CRUSHER DIAPHRAM

We are the Manufacturer, Exporter & Supplier of Crusher Diaphragms. Crusher Diaphragm which is used to prevent the oil leakage .

## Features

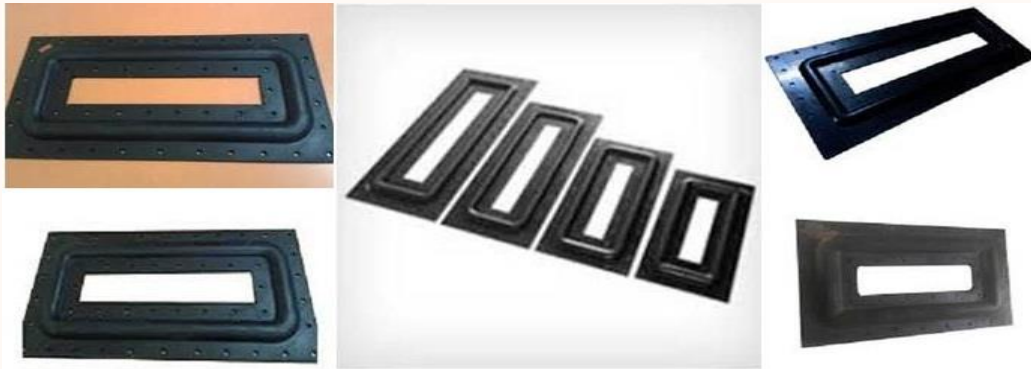
Crusher Diaphragms are used with High elasticity, Perfect strength, Optimum quality and High functional efficiency. These are Resist the unfavorable factor and High temperature resistance.

**We are the manufacturer and supplier of wide range of Crusher Diaphragms. Various sizes to fulfill the requirements of our prestigious clients.**

## Raw Materials Used

- Blended Rubber
- Neoprene
- Neoprene With Fabric Reinforcement

Crusher Diaphragms are mainly used to prevent the oil leakage of Crusher.



## CRUSHER DIAPHRAM SIZES

SL No.	SIZE
1	16 x 9 mm
2	20 x 12 mm
3	22 x 9 mm
4	24 x 14 mm
5	30 x 9 mm
6	30 x 15 mm
7	30 x 20 mm

SL No.	SIZE
8	36 x 8 mm
9	36 x 24 mm
10	36 x 30 mm
11	42 x 6 mm
12	42 x 30 mm
13	48 x 9 mm

# CRUSHER BEADING

Crusher Beadings are specially designed and manufactured for Crushing machines and metallurgy industry for protecting the crusher screens against vibrations and shock during operations. It is widely used in vibrating screen to avoid metal to metal contact. It helps in improving the service life of vibrating screen by absorbing the vibrations.

## Features

The key feature of Crusher beading is easy to install. They are flexible but strong. They Can adopt to different weather conditions, Long lasting, UV stability, Excellent resistance to cracking, High elastic Ability to bear high impact, shock and vibration.

## Applications

The Crusher beadings are mainly used in Crushing machines. They have ability to bear high impact, shock and vibration.

The Crusher beadings are available in different grades and sizes. Raw Materials used for beadings are Natural Rubber, Neoprene Rubber, Silicon Rubber, EPDM Rubber ...etc. and Different Models are available as per the demand.





# MARINE FENDERS IN D SHAPE

One of the specialized products used in Marine, Docks etc are the RUBBER FENDERS which manufactures a range of D Fenders, both hollow and solid to meet a wide variety of requirements, sizes from 20mm up to 500mm in various D formats.



Rubber D fenders provide an excellent barrier protection for port sides, vessels, trucks and loading bays. They are used to absorb the kinetic energy of a boat or vessel berthing against a jetty, quay wall or other vessel to prevent damage.

Also used at loading bays for trucks and any other unique applications where a protective barrier is required, for example on a go-karting track.

They can be installed either into a channel or bolted directly on to the required surface. Our D Fenders can be drilled, pre-curved, chamfered and cut to specific lengths to assist installation and meet requirements of application. The D Fender is produced through a die using the extrusion method.

We use a specially compounded SBR/Natural blend rubber elastomer, which is highly resistant to degradation, UV radiation and seawater. Technically specified elastomers can be produced to meet the customer's individual requirements such as EPDM or Neoprene.

## **Key Features:**

- Highly durable rubber fender Popular D type extrusion
- Easy to install
- Can be supplied in non-marking colours

# DD FENDERS AND DO FENDERS

## DD Fender Sizes

Width x Height	Bore Width x Height
100.0mm x 100.0mm	50.0mm x 50.0mm
150.0mm x 150.0mm	75.0mm x 75.0mm
200.0mm x 200.0mm	100.0mm x 100.0mm
250.0mm x 250.0mm	125.0mm x 125.0mm
300.0mm x 300.0mm	150.0mm x 150.0mm
350.0mm x 350.0mm	175.0mm x 175.0mm
400.0mm x 400.0mm	200.0mm x 200.0mm

## DO Fender Sizes

Width x Height	Bore Dia
100.0mm x 100.0mm	50.0mm
150.0mm x 150.0mm	75.0mm
200.0mm x 200.0mm	100.0mm
250.0mm x 250.0mm	125.0mm
300.0mm x 300.0mm	150.0mm
350.0mm x 350.0mm	175.0mm
400.0mm x 400.0mm	200.0mm



### **Applications:**

- Marinas / Jetties
- Boats
- Loading bays for trucks.
- Areas that require protection from impact

### **Technical Specifications of Fenders**

- Colour: Black
- Compound: Natural Rubber / SBR

Material may change according to usage and Requirements)

- Hardness: 75 ± 5 Shore-A
- Density: 1.3 g/m<sup>3</sup>
- Max. Temperature: +70°C
- Min. Temperature: -20°C

# THREAD PROTECTORS

The Thread protectors are designed to provide protection to the connections of pipes during transportation, storage and to prevent rubbish entering the pipe body and thread. The threads are made in such a way that they could cover all the threads of the pipe and prevent the thread protector from vibrating or stripping slack.

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**Pin End Type**



**Box End & Pin End Type**



**Box End Type**

Our Thread protectors are made of synthetic Rubber having Low/High temperatures and weather resistant properties. Thread protectors are used frequently in the Chemical, Industrial or Water Treatment areas .

***Thread Protectors are available for all Nominal Pipe Standard (NPS-Inch) Sizes from 3.0" to 20.0".***





## Available Small Sized Thread Protectors



BOX END	
No	Item Description
1	3-1/2" EL(80mm)
2	4.0" Spl. Hybrid Thread
3	4-1/2" EL(100mm)
4	4" XLTC (100mm)
5	5-1/4" XLTC(100mm)
6	6-5/8" LTC (138mm)
7	6-5/8" XLTC (138mm)
8	7-5/8" LTC (150mm)
9	9-5/8" LTC (200mm)

PIN END	
No	Item Description
1	3-1/2" EL(80mm)
2	4.0" Spl. Hybrid Thread
3	4-1/2" EL(100mm)
4	4" XLTC (100mm)
5	5-1/4" XLTC(100mm)
6	6-5/8" LTC (138mm)
7	6-5/8" XLTC (138mm)
8	7-5/8" LTC (150mm)
9	9-5/8" LTC (200mm)



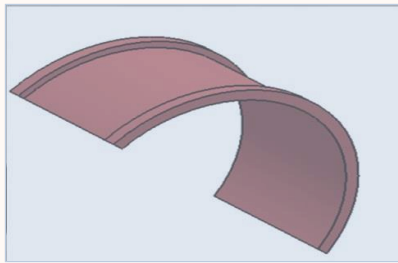
## Available Large Sized Thread Protectors

BOX END	
No	Item Description
1	11-3/4" (90mm)
2	13-3/8" (90mm)
3	16.0" (90mm)
4	18.0" (90mm)
5	20.0" (90mm)

PIN END	
No	Item Description
1	11-3/4" (208mm)
2	13-3/8" (208mm)
3	16.0" (208mm)
4	18.0" (208mm)
5	20.0" (208mm)

# NYLON SLEEVES & RUBBER SEATINGS FOR PIPELINE SUPPORTS

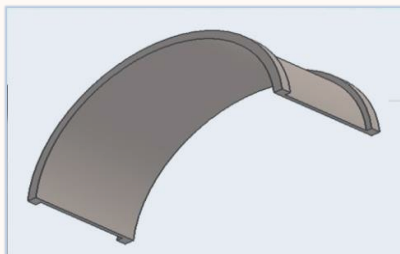
A pipe support is a device designed to carry the weight of the pipe, any in-line equipment and the material in the pipe over a defined span. The four main functions of a pipe support is to guide, anchor, absorb shock and support a specified load. Pipe supports used in high or low temperature applications may contain insulation materials. The overall design configuration of a pipe support assembly is dependent on the loading and operating conditions.



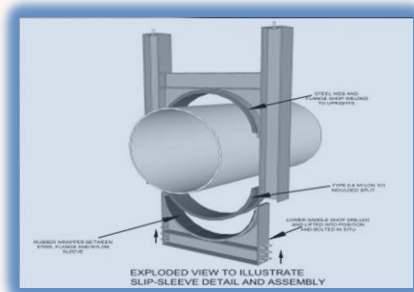
- Our Sleeves and Rubber Cushions are made specially for those pipe supports offered in this section are designed to support pipe from a base structure where vertical adjustment may be required.



- Pipe guides and slides are designed to allow longitudinal movement due to thermal expansion and contraction of pipe.



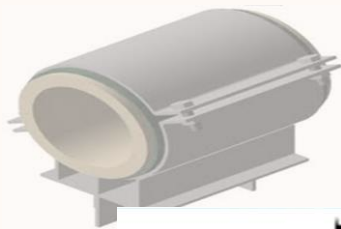
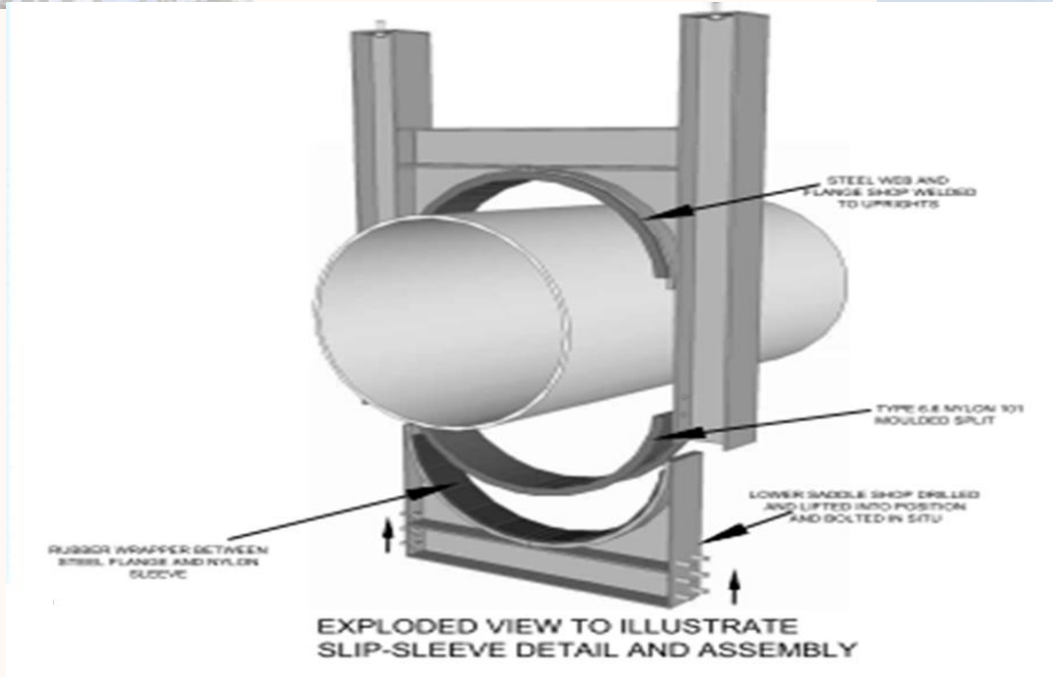
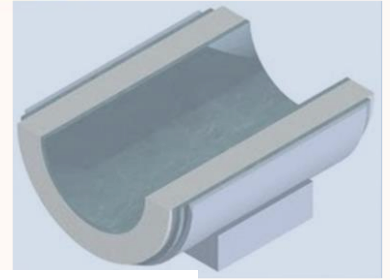
- While in contact of the pipe directly with the metal support may lead to wear, tear, abrasion to the pipe and damages to the pipe.



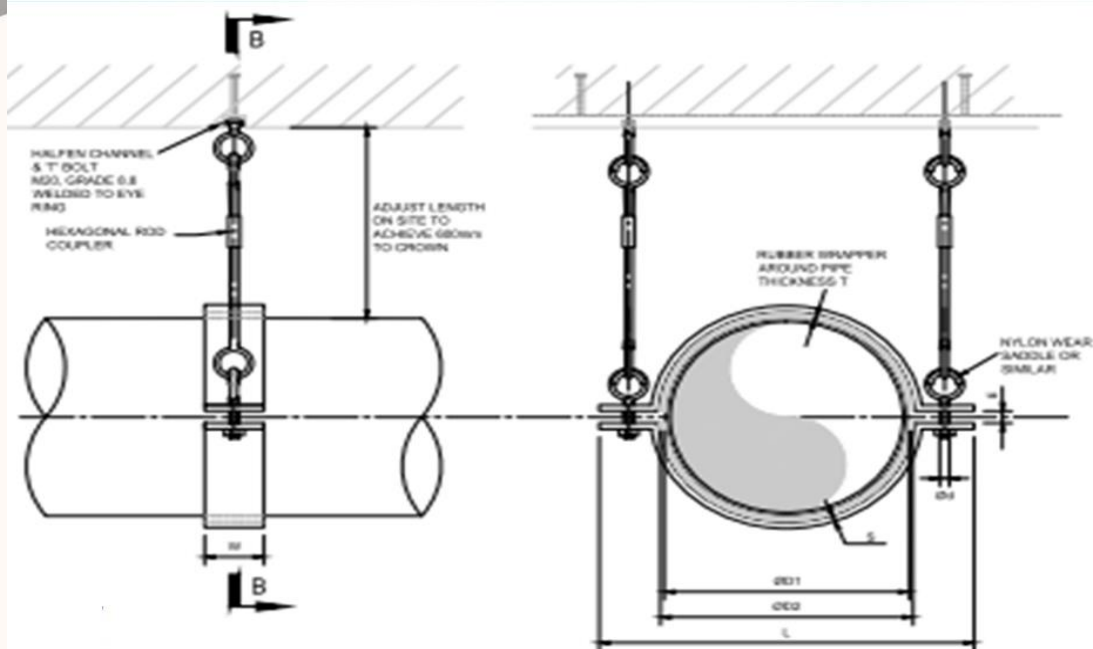
- Our Sleeves and Rubber Cushions are made specially for those pipe supports to prevent this and is fitted in the support or hangers which will act as a shield to prevent the damage to pipe insulation.



# Pipe Line Support Design Sample



# Pipe Hangers Design Sample



## **Nylon Sleeve Definition**

NYLON 6/6 materials have high mechanical strength and superior resistance to wear and organic chemicals. The important properties include high tensile and flexural strength, stiffness, excellent heat deflection temperature, and superior abrasion and wear resistance. As Nylon-6,6 (PA66) is semi crystalline polyamide commonly used in fiber applications and also used as an engineering material in bearings and gears due to its good abrasion resistance and self-lubricating properties, we had selected this material to produce the Sleeve because of its vast and good properties.

### **Sleeve Specification**

Material : Nylon 6.6 Unfilled with UV Additives  
Hardness : 55 to 84 Shore-D  
Color : Black / Off White  
Melting Temp : Above 260°C  
Physical : Water Proof and Water Resistance

## **Rubber Nitrile Strip Definition**

Nitrile is the most commonly used rubber material. This is due to Nitrile compatibility with most environmental and general purpose copolymer of butadiene and acrylonitrile. This compound has a relatively high acryl content, making it exceptionally resistant to petroleum base oils and hydrocarbon fuel. Nitrile has good mechanical properties when compared with other elastomers and high wear resistance.

### **Rubber Wrapper / Strip Specification**

Material : Blended Rubber  
Hardness : 50 Shore-A  
Color : Black  
Temp Range : -30 C to +115 C



## **Nylon Split Sleeve Available Sizes**

<b>Available Nylon Split Sleeve Sizes</b>
<b>Pipe OD Sizes</b>
For Pipe OD 361.80mm
For Pipe OD 413.40mm
For Pipe OD 464.80mm
For Pipe OD 466.20mm
For Pipe OD 619.20mm
For Pipe OD 722.00mm

## **Rubber Wrapper Available Sizes**

<b>Available Rubber Strip Sizes</b>		
<b>Pipe OD Sizes</b>	<b>Type 1</b>	<b>Type 2</b>
For Pipe OD 361.80mm	155 mm X 6 mm X 570 mm	150 mm X 6 mm X 190 mm
For Pipe OD 413.40mm	155 mm X 6 mm X 650 mm	150 mm X 6 mm X 244 mm
For Pipe OD 464.80mm	155 mm X 6 mm X 731 mm	150 mm X 6 mm X 245 mm
For Pipe OD 466.20mm	155 mm X 6 mm X 733 mm	150 mm X 6 mm X 325 mm
For Pipe OD 619.20mm	155 mm X 6 mm X 974 mm	150 mm X 6 mm X 217 mm
For Pipe OD 722.00mm	155 mm X 6 mm X 1135 mm	150 mm X 6 mm X 379 mm

# **RUBBER EXPANSION JOINT /BELLOW**

Rubber Expansion Joints or Expansion Bellows are the same products in different name of Expansion Joints used in all industrial pipe lines where High Temperature, Heavy Pressure, Movements and Vibration are present.

Rubber Expansion Joints is made of Metal or Rubber flanges and different types of Rubbers fitted between both side flanges which is the main part of Rubber Expansion Joint.



Rubber Expansion Joint is a flexible connector designed to relief the stress for piping systems by absorbing movements like compression / extension / angular / torsional / axial / lateral etc. shock, isolating vibration and allowing for misalignment of adjoining ducting or equipment.

Rubber expansion joints are an effective solution against the transfer of noise, vibration and water hammer in pipework, near pumps, compressors, valves, fans and similar pulsating equipment.



Rubber Expansion Bellows are used in : Steel Plants, Cement Plants, Boiler Plants, Thermal Power Plants, Petro-Chemical Refineries, HVAC Systems, Environmental Systems, Chimneys, Water Pipelines, Refineries, Fertilizer units etc.

# **STANDARD LIST OF RUBBER EXPANSION JOINT / BELLOW**

Nomin al Diamet er		Over all Lengt h	Compress ed & Extended Length	Allo wabl e Mov ement (mm )				Operati ng Pressur e	Vacuum
Imperial	Metri c NB	mm	Extended	Axial Compressi on	Axial Extensi on	Lateral Deflecti on	Angular Deflecti on	KPA @80°C	mm Hg
1-1/2"	40	95	87-99	10	6	9	15°	1600	660
2"	50	105	99-110	10	7	10	15°	1600	660
2-1/2"	65	115	103-121	13	7	11	15°	1600	660
3"	80	130	118-133	15	8	12	15°	1600	660
4"	100	135	117-145	19	10	13	15°	1600	660
5"	125	170	152-180	19	12	13	15°	1600	660
6"	150	180	162-190	20	12	13	15°	1600	660
8"	200	205	180-220	25	16	14	15°	1600	660
10"	250	240	215-254	25	16	22	15°	1600	660
12"	300	260	235-274	25	16	22	15°	1600	660
14"	350	265	240-281	25	16	22	15°	1000	660
16"	400	265	240-281	25	16	22	15°	1000	660
18"	450	265	240-281	25	16	22	15°	1000	660
20"	500	265	240-281	25	16	22	15°	1000	660
24"	600	265	240-281	25	16	22	15°	1000	660

Our standard rubber expansion joints are designed to absorb different individual movements non-concurrently within their published limits, whilst at the same time absorbing noise and vibration.