



**A.B. ELASTO PRODUCTS**

**PRIVATE LIMITED**

ISO 9001:2015 Certified Company

**'WE MOULD YOUR  
REQUIREMENTS'**



[www.abelasto.com](http://www.abelasto.com)



## About us

AB. ELASTO PRODUCTS PVT.LTD. is one of the leading industrial rubber manufacture established in the year 1996. Since its inception, A.B. ELASTO PRODUCTS PVT. LTD is manufacture specialized and intricate industrial rubber products for critical applications under the name and style of BHOLTECH which meets specifications of the highest standard, specializing on import substitution. Our products are meant for customers throughout the country in varied industries which includes Thermal Power, Chemicals, Petro - Chemicals Railways, defence, Mining, Material handling, Excavator, Automobile & variety of OEM, regular supplier of rubber products to Tata-Hitachi construction equipment Co. Ltd., Kobelco Construction Equipment Co. Pvt. Ltd.

We commit in maintaining consistent quality with professionally controlled logistics at competitive price. BHOLTECH is proud of being an integral part of our nation for wide range of products used in various Public & Private Sectors. We ensure a high level of service to our customers through ethical business alliance and produce goods of the highest standard

Although it is new in the design and manufacturing of Rubber Expansion Joints, the management team involved in designing, compounding, manufacturing and marketing of Rubber Expansion Joints, are in this field for last 40 years. Our design team is experienced in manufacturing this product as per international standards and specifications.

## Our Mission

Our mission is true professionalism, catering to genuine need of the customers with honesty and integrity, strictly maintaining delivery schedule. We strive to bring down the customer complaints to zero. Our targeted annual growth rate is 30% and reduction of rejection level within 0.5%. We continually try to improve quality of our products so that we are treated as a preferred supplier to our customers.

BHOLTECH is the total solution for all critical applications of high quality, high performance. We ensure a high level of service to its customers through ethical business alliance and produce goods of the highest standard through the "entire control direct" motion.





Sushim Bhol,  
Marketing Director  
Ujjwal Baran Bhol  
Managing Director

## ENSURING QUALITY OF PRODUCTS AT A COMPETITIVE PRICING

According to Allied Market Research, the global industrial rubber market size was valued at \$29.8 billion in 2018 and is projected to reach \$44.6 billion by 2026, growing at a CAGR of 5.2% from 2019 to 2026. The demand for the industrial rubber market is expected to majorly increase owing to the growth in the automotive sector. Also, the growing use of natural rubber by automotive, chemical, medical, and other industries drive the growth of the market. However, there has always been a challenge in the industrial rubber market pertaining to the quality of products in ratio with the cost and the deliverability of products as per the timeline.

A.B. Elasto Products Pvt Ltd., established on 21st May, 1996, is the entity that has been one of the best industrial rubber hose manufacturing companies in India. AB Elasto Products Private Limited is engaged in manufacturing and supplying a wide range of quality & cost effective industrial mountings, industrial hoses, air ducts, rubber products, expansion joint, to name a few, for almost 25 years now. Therefore, as a leading manufacturer of industrial rubber products in India, the firm has homestead of state-of-the-art machines to test the quality of raw material that is procured from certified vendors, and offer robust products to its clients.

## We've been one of the highest suppliers of air brake hoses, which is a very integral safety item of Indian railways

"In the last few years, we've been one of the highest suppliers of air brake hoses, which is a very integral safety item of Indian railways. And

currently, we are also the largest suppliers in the Eastern part of India. Despite of COVID-19

outbreak, our company has always been on the positive side of the market, growing at 10-20 percent year-on-year. We are expecting a growth of 30 percent by the end of the year," highlights Sushim Bhol, MD at A.B. Elasto Products.

## Offering State-of-the-art products and services

A.B. Elasto Products ordained for Customers throughout the country in varied Industries which includes chemicals, petro-chemicals, railways, defense, mining & materials handling, excavator, automobile & variety of OEM market. Moreover, the company is connected with most of the government projects such as Indian Railways, SAIL, BHEL, NTPC, UCIL, BEML, NPCIL, etc. The robustness of the company's products and its related services has made clients cling to them for years across every requirement.

"We do not sell it to the on-road market or the local market. We only offer our products to the OEMs, or the firms, such as TATA, KOBELCO, L&T etc. Any product that comes out, our directors do their best to execute the product within the stipulated period of time. So to speak, our clients are pretty much happy with our services and products. As our clients have their own commitment dates, we try our best and work 24/7 to execute the order within that period of time, we abide by our tagline, "WE MOULD YOUR REQUIREMENTS," signifies Sushim.

The company has been consistently developing and offering services so as to cater to its clients across numerous industry verticals. The YOY revenue growth of A.B. Elasto Products has been steadily growing at an average of 25 percent with around 15-16 Crore with the future looking forward to 20 Crore by the end of this fiscal year.







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## HOSE



Item : Hose Coupling Assembly for Brake Pipe & Feed Pipe

Specn : 02-ARB-02, Appendix-E AAR Manual M-601 & 602  
With latest revision & amendment

## AIR BRAKE HOSE





# TECHNICAL PARAMETERS OF MOST COMMONLY USED HOSES

Hose Type	R1A/AT	R2A/AT	R3	R6	R5C/R5R	Super Impulse	NCB Hose	R9	R10	R11	4SP	4SH	R13
Reinforcement	1 Wie braid	2 Wie braid	2 Textile braid	1 Textile braid	1 Wire braid & 1 cotton fabric	2 Wire braid	2 Wire braid	4 Wire spiral with spiral	4 High tensile with spiral	6 High tensile with spiral	4 High tensile with spiral	4 High tensile with spiral	4 High tensile with spiral
Temperature Range	-40°C to +93°C	-40°C to +93°C	-40°C to +93°C	-40°C to +93°C	-40°C to +93°C	-40°C to +93°C	-40°C to +100°C	-40°C to +121°C	-40°C to +121°C	-40°C to +121°C	-40°C to +121°C	-40°C to +121°C	-40°C to +121°C
Impulse	1,50,000 Cycles	2,00,000 Cycles	2,00,000 Cycles	- Cycles	1,50,000 Cycles	3,00,000 Cycles	1,00,000 Cycles	3,00,000 Cycles	4,00,000 Cycles	4,00,000 Cycles	4,00,000 Cycles	4,00,000 Cycles	5,00,000 Cycles

INTERNAL DIAMETER		OPERATING PRESSURE (PSI)											
MM	INCH.	( Proof Pressure is Equal to two times operating Pressure; Burst Pressure is equal to four times operating Pressure )											
5.0	3/16	3000	5000	1500	500	3000	-	-	-	-	-	-	-
6.3	1/4	2750	5000	1200	400	3000	5800	6525	-	8750	11250	6525	-
8.0	5/16	2500	4250	1200	400	2250	-	-	-	-	-	-	-
10.0	3/8	2250	4000	1125	400	-	5000	5510	4500	7500	10000	6450	10000
10.3	13/32	-	-	-	-	2000	-	-	-	-	-	-	-
12.5	1/2	2000	3500	1000	400	1750	5000	5250	4000	6250	7500	6020	7500
16.0	5/8	1500	2750	875	350	1500	4250	4060	-	-	-	5075	-
19.0	3/4	1250	2250	750	250	-	3750	4000	3000	5000	6250	5075	5000
22.0	7/8	-	-	-	-	800	-	-	-	-	-	-	-
25.0	1	1000	2000	565	-	-	3000	3120	3000	4000	5000	4060	5000
29.0	1 1/8	-	-	-	-	625	-	-	-	-	-	-	-
31.5	1 1/4	625	1625	375	-	-	2250	2495	2500	3000	3500	3045	5000
35.0	1 3/8	-	-	-	-	500	-	-	-	-	-	4720	-
38.0	1 1/2	500	1250	250	-	-	-	2120	2000	2500	3000	2680	5000
46.0	1 13/16	-	-	-	-	350	-	-	-	-	-	-	-
50.0	2	375	1255	-	-	-	-	1625	2000	2500	3000	2500	5000



## 2 - RAYON BRAID (Non metallic) HYDRAULIC HOSE

### SPECIFICATIONS :

BHOLTECH - SAE 100 R3

### APPLICATION :

Hydraulic Oil, Fuel Oil Anti - Freeze Solutions and Water

### CONSTRUCTION :

Tube : Synthetic Rubber.

### Reinforcement :

Two Braids High Tenacity Rayon.

### Cover:

Oil and abrasion resistant Synthetic Rubber

### TEMPERATURE RANGE :

-40°F to + 200°F

Hose Size				Max. working pressure		Testing pressure		Min bursting pressure		Min bend Rad Inches
I.D.		O.D.								
In	Mm	In	Mm	Pal	Kg/Cm <sup>2</sup>	Pal	Kg/Cm <sup>2</sup>	Pal	Kg/Cm <sup>2</sup>	
3/16	4.8	1/2	12.7	1500	105	3000	210	6000	420	3
1/4	6.4	9/16	14.4	1250	88	2500	175	5000	350	3
5/16	7.9	11/16	17.5	1200	84	2400	168	4800	336	4
3/8	9.5	3/4	19.0	1125	79	2250	160	4500	320	4
1/2	12.7	15/16	32.8	1000	70	2000	140	4000	228	5
5/8	15.9	1.1/8	28.7	875	61	1750	122	3500	244	5.50
3/4	19.0	1.1/4	31.9	750	53	1500	105	3000	210	6
1	25.4	1.1/2	38.8	560	40	1125	78	2250	157	8
1.1/4	31.8	1.3/4	44.5	375	26.5	750	58	1150	116	10
1.1/2	38.1	2	50.8	250	17.6	500	35	1000	70	12

## ONE RAYON BRAID LOW PRESSURE HOSE

### SPECIFICATIONS :

BHOLTECH - SAE 100 R6

### APPLICATION :

Hydraulic Oil, Fuel Oil Anti-Freeze Solutions and Water.

### CONSTRUCTION :

Tube Specially compounded Synthetic Rubber

### Reinforcement :

One braid High Tenacity Rayon

### Cover :

Oil and Abrasion-resistant Synthetic Rubber

### TEMPERATURE RANGE :

- 40°F to + 200°F.

Hose Size				Max. working pressure		Testing pressure		Min bursting pressure		Min bend Rad Inches
I.D.		O.D.								
In	Mm	In	Mm							
3/16	4.8	7/16	11.1	500	35	1000	70	2000	140	2
1/4	6.4	1/2	12.7	400	28	800	56	1600	112	05
5/16	7.9	9/16	14.3	400	28	800	56	1600	112	3
3/8	9.5	5/8	15.9	400	28	800	56	1600	112	3
1/2	12.7	25/32	19.8	400	28	800	56	1600	112	4
5/8	15.9	29/32	23.0	350	25	700	49	1400	98	5
7/8	22.2	1.116	27.0	300	21	600	42	1200	81	6

## Two Rayon Braid ONE SPIRAL WIRE HYDRAULIC HOSE

### SUCTION/DELIVERY HOSE

### SPECIFICATIONS :

BHOLTECH - SAE 100 R4

### APPLICATION :

Petroleum Base Hydraulic Oils, Gasoline and Fuel Oil in suction lines or low pressure return lines.

### CONSTRUCTION :

Tube : Synthetic rubber.

### Reinforcement :

Two Rayon Braids separated by a Spiral wire to prevent collapse

### Cover :

Oil and Abrasion-resistant Synthetic Rubber.

Hose		Size		Max. working pressure		Testing pressure		Min bursting pressure		Min bend Rad Inches
I.D.		O.D.								
In	Mm	In	Mm	Pal	Kg/Cm²	Pal	Kg/Cm²	Pal	Kg/Cm²	
3/4	19	1.3/8	34.9	300	21	600	42	1200	42	5
1	25.4	1.5/8	41.3	250	17	500	35	1000	70	6
1.1/4	31.9	2	50.8	200	14	400	28	800	56	8
1.1/2	38.1	2.1/4	57.2	150	10.5	300	21	600	42	10
2	50.8	2.3/4	69.9	100	7	200	14	400	28	12
2.1/2	63.5	3.1/4	82.6	62	4.4	125	8	250	17.5	14
3	76.2	3.3/4	95.3	65	4	112	8	225	16	18



## CHEMICAL HOSE: AS PER IS-7654/87

### Application:

Hose are specially designed for the application in acid, alkali, organic solvents Alkali

### Construction :

1. Tube synthetic rubber
2. Reinforcement rubber impregnated Fabric.
3. Temperature : 40°C to + 135°C.
4. Length: 12 mtrs

Nominal Bore		Working Pressure kg/cm <sup>2</sup>	No. of	
Inch	Mm		Ply	Braids
1/2"	12.5	10	2	2
3/4"	2.0	10	2	2
1"	25.4	10	2	2
1.1/2"	38.5	10	2	2
2"	50.4	10	2	2
2.1/2"	63.4	10	2	2
3"	76.3	10	3	2

## STEAM HOSE

### Application :

For use of Steam

### Construction :

Tube : Seamless Synthetic Heat

### Resistant Tube

Reinforcement: Two braids of high Tenacity Rayon.

### Cover:

Oil, Weather and abasion resitant Synthetic Rubber.

### Temperature :

40°C to 150°C Length: 15mtrs.

Nominal Bore		Working Pressure kg/cm <sup>2</sup>	No. of Braids
Inch	Mm		
3/8"	9.5	6	2
1/2"	12.7	6	2
5/8"	15.9	6	2
3/4"	19	6	2
1"	25.4	6	2
1.1/4"	31.8	6	2
1.1/2"	38.1	6	2
2"	50.4	6	2

## SAND BLAST HOSE

IS: 5894 - 1980 Type - I

### Application

High-Abrasion-Resistant Rubber for lining  
Reinforced with Textile Braid Cover  
Compound with protective anti-oxidants for optimum weather resistance.

Nominal Bore				W. P. kg/cm <sup>2</sup>	No.of	
I.D.		O.D.			Ply	Braids
Inch	Mm	Inch	Mm			
3/4"	20	1.5/5	38.5	7.14	4	2
1"	25.4	1.7/2	43.5	7.14	4	2
1.1/4"	31.5	2.047	52	7.14	4	2
1.1/2"	38	2.303	58.5	7.14	5	2
1.3/2"	45	2.578	65.5	7.14	5	2
2"	50.4	2.776	70.5	7.14	5	2

## SAND BLAST HOSE

IS: 5894 - 1980 Type - II

### Application

High-Abrasion-Resistant Rubber for lining.  
Reinforced with Textile Braid Cover  
Compound with protective anti-oxidants for optimum weather resistance.

Nominal Bore				W. P. kg/cm <sup>2</sup>	No.of	
I.D.		O.D.			Ply	Braids
Inch	Mm	Inch	Mm			
3/4"	20	1.5/5	38.5	10.12	4	-
1"	25.4	1.7/2	43.5	10.2	4	-
1.1/4"	31.5	2.047	52	10.2	4	-
1.1/2"	38	2.303	58.5	10.2	5	-
1.3/2"	45	2.578	65.5	10.2	5	-
2"	50.4	2.776	70.5	10.2	5	-



## OIL SUCTION & DISCHARGE HOSE : IS:10733/83 (Tanker Hose)

### Application:

For handling and transferring petroleum products i.e. industrial fuels, diesel, oils, petrol, kerosene etc. in road/rail transfers and storage tanks.

### Construction :

1. Internal wire helix.
2. Ply or Braided rubberised fabric reinforcement.
3. Rubber lining.
4. Embedded electrically bonded wire.
5. Plies or rubberised fabric reinforcement.
6. Rubber cover resistant to weather, oil and abrasion.
7. Length : Maximum 15 meter.

Nominal Bore		Working Pressure kg/cm <sup>2</sup>		No.of	
Inch	Mm	Type I	Type II	Ply	Braids
1.1/4"	31.5	7	10	3	2
1.1/2"	38.0	7	10	3	2
2"	50.0	7	10	4	2
2.1/2"	63.0	7	10	4	2
4"	75.0	7	10	5	2
5"	100.0	7	10	5	2
6"	125.0	7	10	5	
8"	200.0	7	10	5	
10"	250.0	7	10	5	
12"	300.0	7	10	5	

## OIL SUCTION & DISCHARGE HOSE : IS:10733/83 (Tanker Hose)

### Duty Water Suction Hose

IS: 3549/83

### Construction :

Tube: Natural Rubber

### Reinforcement :

Several Plies with Rubber impregnated Eoren Textile with spiral wire.

### Cover :

Smooth or corrugated end

Fittings : Flange with or without. Built in type

Length : 15 mtrs

ID : 2" to 12"

Nominal Bore		Working Pressure kg/cm <sup>2</sup>		No.of	
Inch	Mm	Type I	Type II	Ply	Braids
2"	50.8	7	10	3	-
2.1/4	56	7	10	3	-
2.1/2	63	7	10	3	-
3"	76.2	7	10	3	-
4"	101.6	7	10	4	-
5"	127	7	10	4	-
6"	152	7	10	4	-
8"	203	7	10	5	-
10"	245.0	7	10	5	-
12"	304.2	7	10	5	-

## Petroleum Dispensing Hose

IS: 2396/1981

### Application :

Recommended for use in Petrol Pump Station

### Construction :

Synthetic Rubber

Length: 15 mtrs.

Nominal Bore				Working Pressure kg/cm <sup>2</sup>	
I.D.		O.D.			
In	Mm	In	Mm		
3/4"	20	1.1/4"	32	58	4.1
1"	25.4	1.1/2"	58	58	4.1
1.1/4"	31.5	1.3/4"	45	58	4.1



## BHOLTECH AIR HOSE

IS : 446/(TYPE-I)

### APPLICATION:

This hose is recommended where service condition require a light duty hose such as in shipyards wagon building and structural shops, foundries and riveting with mechanical tools and equipment operated by air compressors working at pressure up to 7 kg/sq.cm

### FEATURES:

This hose is recommended for light duty, air has a seamless lining of good quality rubber compound. The reinforcement is a superior quality braided yarn, selected to meet the pressures encountered when operating pneumatic equipment. The cover which is Warp is made from a tough abrasion resistant black rubber compound. The hose is easy to handle.

Hose Size		Approx O.D. Mm	Braids	Working Pressure kg/cm²	
I.D.				Psi	Kg.Cm²
In	Mm				
3/16"	5.0	14.0	1	100	7
1/4"	6.4	15.5	1	100	7
5/16"	8.0	17.0	1	100	7
3/8"	10.0	17.0	2	100	7
1/2"	12.5	19.0	2	100	7
5/8"	16.0	22.5	2	100	7
3/4"	20.0	27.0	2	100	7
1"	25.4	34.5	2	100	7
1.1/4"	31.1	48.0	2	100	7
1.1/2"	50.8	48.0	2	100	7
2"	50.8	61.5	2	100	7
2.1/4"	57.0	69.8	2	100	7
3"	76.2	89.0	2/3	100	7

## BHOLTECH PNEUMATIC HOSE

IS : 446/(TYPE-II)

### APPLICATION:

This hose is extensively used in iron ore, copper, mica and manganese mines for drilling with jack hammers and rock drills. It is also used in general construction work, digging roads and tunnelling with paving breakers. In structural shops it is used for chipping, grinding and riveting. Service stations use for tyre inflation. It is recommended for use with all mechanical tools and equipment worked by compressed air where the working pressure is 10 kg/cm<sup>2</sup>

### FEATURES:

This hose has a seamless lining which is non porous and resistant to the action of heat, oil vapour and mist from the compressors. Cover is made from a high tensile, cut and abrasion resistant black cover compound which also provided maximum protection from the deteriorating effects of sun and rain.

Hose Size		Approx O.D. Mm	Braids	Working Pressure kg/cm <sup>2</sup>	
I.D.				Psi	Kg.Cm <sup>2</sup>
In	Mm				
3/16"	5.0	14.0	1	100	7
1/4"	6.4	15.5	1	100	7
5/16"	8.0	17.0	1	100	7
3/8"	10.0	17.0	2	100	7
1/2"	12.5	19.0	2	100	7
5/8"	16.0	22.5	2	100	7
3/4"	20.0	27.0	2	100	7
1"	25.4	34.5	2	100	7
1.1/4"	31.1	48.0	2	100	7
1.1/2"	50.8	48.0	2	100	7
2"	50.8	61.5	2	100	7
2.1/4"	57.0	69.8	2	100	7
3"	76.2	89.0	2/3	100	7



## BHOLTECH ROCK DRILL HOSE

IS : 446/(TYPE-III)

### APPLICATION:

Built to withstand extremely rough handling, this top quality hose is recommended for the most severe service conditions found in open cast mines and quarries, it can be used under conditions where normally only armoured hose would be practical. It is ideal for use where the jagged, hard and abrasive materials, such as iron ore, granite, quartz or limestone would cut up other types of hoses.

### FEATURES:

Of braided construction, the hose is flexible as a rope and kink-proof. The smooth moulded cover permits it to glide over hard rock surfaces without snagging. The required pressure is 14 kg/cm

Hose Size	I.D.		Braids	Working Pressure kg/cm <sup>2</sup>	
	In	Mm		Psi	Kg.Cm <sup>2</sup>
3/16"	5.0	14.0	1	200	14
1/4"	6.4	15.5	1	200	14
5/16"	8.0	16.5	1/2	200	14
3/8"	10.0	19.0	1/2	200	14
1/2"	12.5	23.0	2	200	14
3/4"	20.0	30.0	2	200	14
	22.0	33.0	2	200	14
1"	25.4	38.0	2	200	14
1.1/4"	31.1	46.0	2	200	14
1.1/2"	38.1	51.0	2	200	14
	44.5	60.0	2/3	200	14
2"	50.8	66.0	2/3	200	14
	59.0	77.0	2/3	200	14
	72.0	95.0	2/3	200	14
3"	76.2	95.0	2/3	200	14
	87.0	109.0	2/3	200	14
4"	101.6	125.5	3/4	200	14

## SLURRY HOSES/SUCTION & DISCHARGE HOSES

THESE HOSES ARE HIGHLY RESILIENT AND ROBUST.

USED IN :

1. MINING
2. DREDGING.
3. SUCTION AND DISCHARGE UNITS.
4. MATERIAL HANDLING & CONSTRUCTION.

### POLYMERS USED:

1. NATURAL RUBBER
2. EPDM
3. NEOPRENE.
4. SBR
5. SILICONE

\*REINFORCED WITH STEEL WIRE.

\*BOTH SIDE FLANGES AVAILABLE AS PER CUSTOMER REQUIREMENT.

\*All Customized size upto 1000 mm is available.

\*All customized size upto 1000 NB- Dia is available

\*Max pressure rating as per technical requirements.

SL NO	ID	OD	WP(Mpa)	Max. Length(Mtrs)
1	50	70	1.4	12
2	75	100	1.4	12
3	100	125.4	1.4	12
4	125	150.8	1.4	12
5	150	176.2	1.4	12
6	200	234	1.4	12
7	250	284	1.4	12
8	300	334	1.4	12
9	350	382	1.4	7
10	400	440	1.4	7
11	450	490	1.4	7
12	500	545	1.4	7





RUBBER EXPANSION JOINT INSTALLATION MANUAL

*Rubber expansion joint is a specially engineering product inserted in a rigid piping system to achieve:*

- 1) Absorb movement in all directions
- 2) Act as vibration isolator and reduces noise
- 3) Compensate for misalignment
- 4) Relieve system strength due to low stress, thermal change. Pumping surges, etc

The range of our engineering emphasizes on choosing the correct fabric, warp sheet used for reinforcement for actual expansion joint construction. Also we emphasize on selecting correct rubber compatible for resistance to chemicals and also for high temperature application, especially with Viton, Butyl, Hypalon, Neoprene, Nitrile, EPDM, etc. A good product always starts with good raw materials and we buy from the best available in the market. Hand built rubber expansion joints and connectors for piping and duct work solve problems that cannot be handled by metal or plastic, since rubber is more resilient and flexible than others

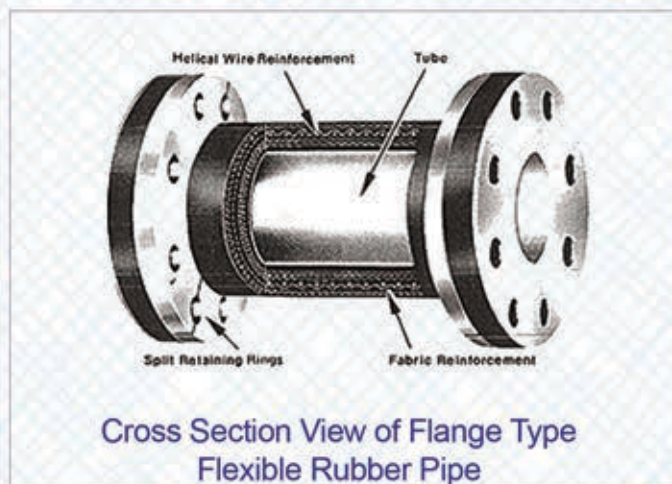
**Technical details chart of Rubber Expansion Joints.**

Arrangement	Description	Size mm	Design Pressure Kg/cm <sup>2</sup>	Permissible movements depending on size			Face to Face Length mm
				Axial Compression mm	Axial Elongation mm	Lateral Deflection mm	
BHOLTECH (1 A)	1 ARCH RE Joint	40 to 3600	Up to 25	Up to 40	Up to 20	Up to 15	75 to 500
BHOLTECH (2 A)	2 ARCH RE Joint	40 to 3600	Up to 20	Up to 60	Up to 25	Up to 25	200 to 600
BHOLTECH (3 A)	Multi ARCH RE Joint	40 to 3600	Up to 5	Up to 100	Up to 100	Up to 75	250 to 800
BHOLTECH (4 A)	Concentric are eccentric reducer type RE Joint	40 to 3600	Up to 15	Up to 25	Up to 15	Up to 12	200 to 500





They are mainly highly elastic moulded bellows manufactured from various types of rubber to take care of wide range of duty conditions. We also manufacture reinforced rubber pipe or rubber tanged hose which takes care of transverse movement, also rubber carcass can stand some expansion and compression, mainly used for abrasive purpose in the mining industry.



### **PRESSURE BALANCE TYPE RUBBER EXPANSION JOINT**

Pressure balance type rubber expansion joints are used for special applications. The function is to balance internal working pressure to minimize the net end loads acting on equipment e.g. turbines, condenser etc. This arrangement is used where anchor is not provided.

The pressure balance type is T shaped with two expansion joints are in line at each end. The pressure thrust cancels each other leaving behind only the stiffness of rubber expansion joints.

The two rubber expansion joints act together to accommodate external movements, such as lateral and axial i.e. one rubber expansion joint will be compressed where the other will be extended



## DESIGN OF RUBBER EXPANSION JOINT

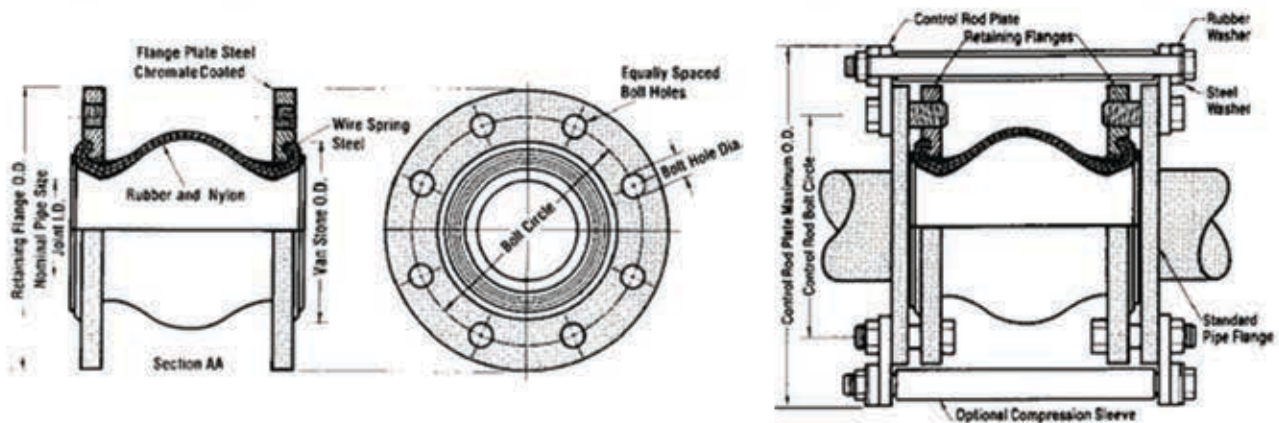
Cover the mandrel and the solid rubber arch from with the rubber tube.

The carcass of the body is made of multiple parties of rubber impregnated nylon tyre cord which forms the backing behind the tube

Add mild steel rings for reinforcements

Layer of Neoprene rubber is applied outside of REJ to withstand weather and ozone

### Typical Expansion Joint Cross Section



## MULTIPLE ARCH TYPE EXPANSION JOINT

Light weight multi convoluted expansion joints are used for low pressure application with high movements axially and laterally with low spring rate. Ideal for air conditioning, air ducts, ventilating systems, etc.

### Advantages:

- 1) Lightweight, Install easily, less cost
- 2) Suitable for wide range of temperature
- 3) Available in sleeve or flanged type





**RUBBER EXPANSION JOINT**

Rigid laboratory and field test of AB elasto rubber expansion joints will provide you with assurances for reliable service with a long life. Safety factor of AB Elasto rubber expansion joints are on the higher side in such areas as pressure and movement. AB Elasto flexible couplings and rubber expansion joints are ideally suited for many applications in a wide range of industries including:

- 1) Power generating stations
- 2) Refineries, Chemical and industrial process piping
- 3) Pump suction and discharge lines
- 4) Pulp and paper industries
- 5) Marine applications
- 6) Ventilating systems
- 7) Air conditioning systems
- 8) Waste water and sewage disposal
- 9) Air ducts

***To select the proper expansion joints, the following data are to be taken into consideration***

- a) Pipe size
- b) Type of liquid or gas used for pump medium
- c) Installed face to face dimensions
- d) Drilling standards and specifications
- e) Pipe misalignment
- f) Need for control units

Proper design of arch support ring will stop arch collapse during extreme vacuum service and system start up. Single open arch helps full range of movement. Bolt holes are sealed with self cured Neoprene rubber paste to help eliminate oxygen intrusion. ABE manufactures offset configuration of REJ to eliminate misaligned piping and equipment Pump applications where there is no support for long can levered pipe runs. We also manufacture concentric and eccentric reducers.



***concentric eccentric Reducers, Rubber expansion Joint***



## RUBBER EXPANSION JOINT



RUBBER EXPANSION JOINT  
WITH ASSEMBLY



RUBBER EXPANSION JOINT  
/ BELLOWS

## METALLIC EXPANSION JOINT



TYPES OF RUBBER EXPANSION JOINTS  
MANUFACTURED BY A.B. ELASTO

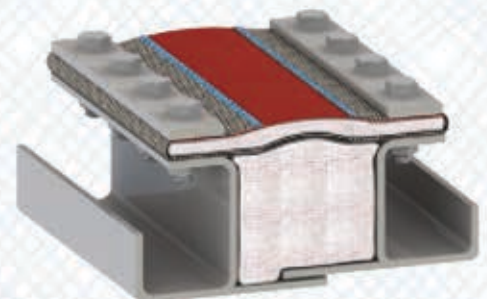


METALLIC EXPANSION JOINT / BELLOWS

## FABRIC EXPANSION JOINT



NON METALLIC EXPANSION JOINT / FABRIC EXPANSION JOINT  
USE AT DUCT LINE FOR GLUE GUN & ECONOMISER-  
PREHEATER & SPLINE



RECTANGULAR FABRIC  
EXPANSION NON METALLIC  
EXPANSION JOINT



03

## MOULDING ITEMS



04

## PLASTIC ITEMS

### Tube end cover



### Reserver cap





## A. B. ELASTO PRODUCTS PVT. LTD.

### NAME OF MACHINERY / EQUIPMENTS TESTING

1	AUTOMATIC CHEMICAL WEIGHING MACHINE	40	HYDRAULIC PRESS
2	BALE CUTTER	41	HYDRAULIC PRESS
3	DISPERSION KNEADER	42	HYDRAULIC PRESS
4	MIXING MILL	43	HYDRAULIC PRESS
5	INJECTION MOULDING PRESS	44	HYDRAULIC PRESS
6	COMPRESSION MOULDING MACHINE(SINGLE DAY LIGHT)	45	DRILL MACHINE
7	COMPRESSION MOULDING MACHINE (DOUBLE DAY LIGHT)	46	CHAIN PULLY
8	COMPRESSION MOULDING MACHINE (DOUBLE DAY LIGHT)	47	DG SET GENERATOR
9	COMPRESSION MOULDING MACHINE(SINGLE DAY LIGHT)	48	AUTOMATIC STEAM GENERATOR
10	COMPRESSION MOULDING MACHINE(SINGLE DAY LIGHT)	49	VULCANISER
11	EXTRUDER STRAIGHT HEAD	50	VULCANISER
12	KNITTING MACHINE	51	STUTION MACHINE
13	CHILLER	52	MIXING MILL 12" X 30" 25 KG
14	COOLING CONVEYOR	53	MIXING MILL 5.4" X 16" 5 KG
15	CATTER PULLER	54	BOILEER 200 kg
16	BOILER	55	VULCANISER
17	VULCANIZER BIG		a) Ø 0.9 MTR. X 4 MTR.-2.54cmt
18	VULCANIZER SMALL		b) Ø 1.5 MTR X 7 MTR
19	WATER SOFTENING PLANT	56	VICE 8"
20	AIR COMPRESSOR NO.1	57	SAND BLASTING M/C DC - 12
21	GRINDER NO.1	58	HYDRAULIC PRESS
22	GRINDER NO.2		a) 20" X 20" b) 26" X 26" c)18"X18"
23	GRINDER NO.3		2 DAYLIGHT d) 16 X 16"
24	EST1000 SHORT BLASTING MACHINE		4 DAYLIGHT e) 16 X 16"
25	COMPUTERISED PRINTING MACHINE		4 DAYLIGHT f) 1MTRX1MTR
26	HAND PRESS MOULDING SMALL		2 DAYLIGHT g) 12 X 12"
27	POWER PRESS CAPACITY 100 TON		2 DAYLIGHT
28	POWER PRESS CAPACITY 150 TON	59	Grinding M/C (5000 RPM)
29	POWER PRESS CAPACITY 250 TON	60	DRILL M/C
30	DRILL MACHINE NO.1	61	DG SET GENERATOR 125 KVA
31	DRILL MACHINE NO.2	62	WELDING M/C
32	KNEADER	63	AIR COMPRESSOR 30 CFM
33	MIXING MILL	64	WEIGHT M/C Capacity - 5 Kg
34	MIXING MILL(TEST SLAB)	65	WEIGHT M/C 120 KG X 20 KG
35	42" CALENDER MACHINE	66	Kneader 35 Ltr
36	HAND PRESS	67	CALENDER MACHINE 16"X42"X3" BOWL
37	HAND PRESS		
38	SAND BLASTING(WITH COMPRESSOR)		
39	HYDRAULIC PRESS		

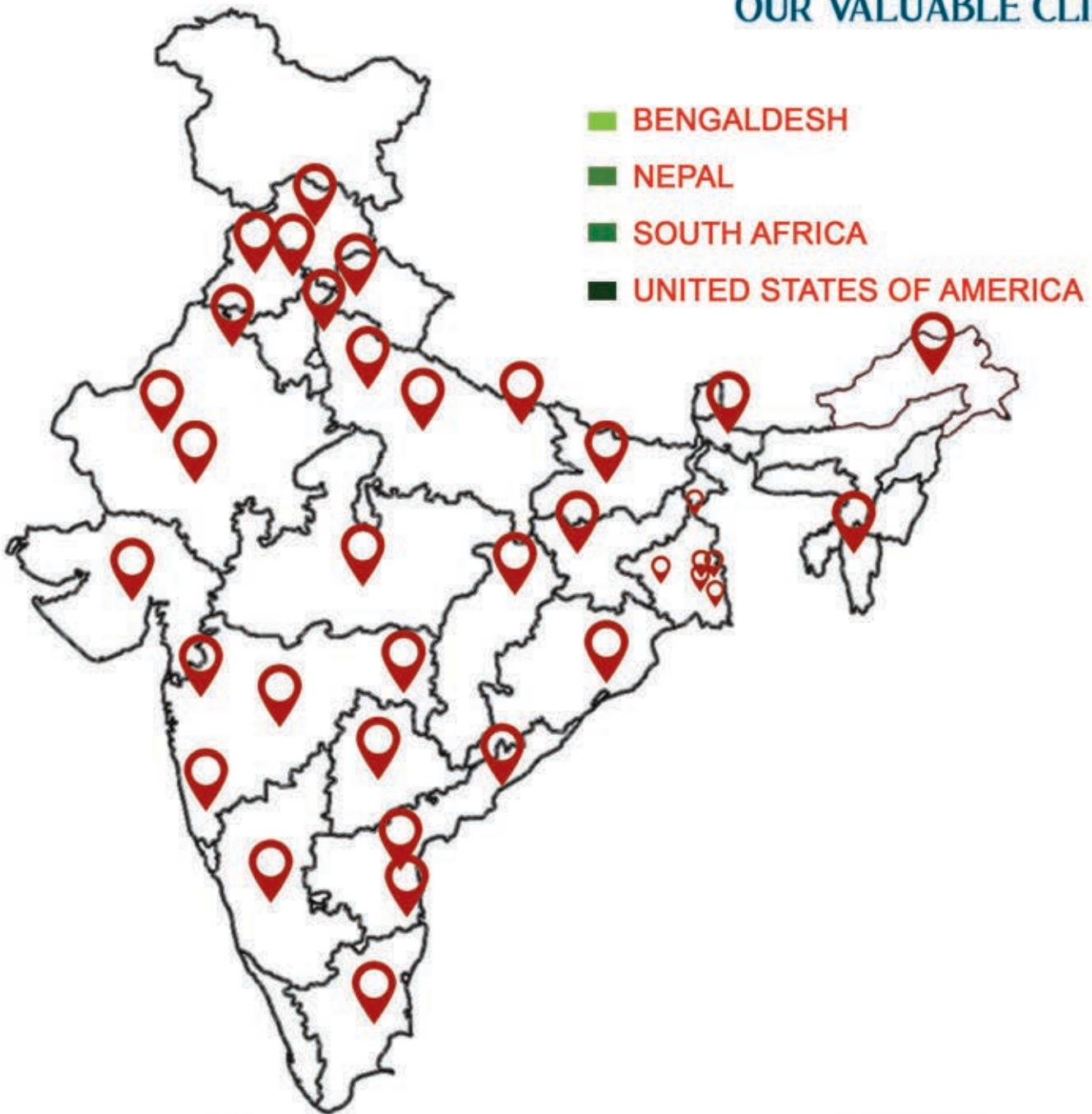
## A. B. ELASTO PRODUCTS PVT. LTD.

### TESTING EQUIPMENTS AVAILABLE IN-HOUSE

01	UNIVERSAL TESTING MACHINE	14	WEGHING BALANCE1
02	MUFFLE FURNACE	15	WEGHING BALANCE2
03	BURST TEST MACHINE	16	WEGHING BALANCE3
04	LAB PRESS	17	WEGHING BALANCE4
05	DUMBELL CUTTER	18	4 axis fatigue testing machine
06	TENSILE TESTING MACHINE	19	Vertical fatigue testing machine
07	MELTING POINT CHECK MACHINE	20	Servo control compression testing machine
08	O.D RHEOMETER	21	Chemical testing apparatus
09	COMPUTERISED COMPRESSION TESTING MACHINE	22	COLD CHAMBER
10	HAND PRESS MOULDING BIG	23	Tensile testing machine
11	AUTOMATIC SPECIFIC GRAVITY TESTING MACHINE	24	Hardness (store A)
12	SURFACE GRINDING MACHINE		
13	IMPACT TESTING MACHINE		



## OUR VALUABLE CLINETS







## 800 NB Rubber Hose For NTPC Farakka

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**Mobile :** +91 9620874731 / 9243245220

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