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HoseTek

CUSTOM BUILT HOSES














Quality
Endorsed
Company

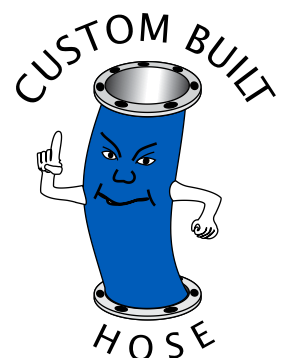
ISO 9002 Lic 0679
Standards Australia

HoseTek

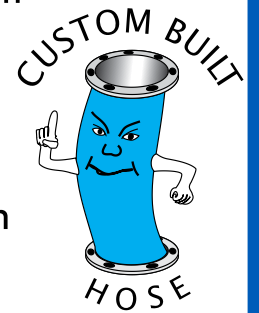
Not just manufacturing hoses
but building a reputation

What can we offer you

-  Short flexible lead-time
-  Application specific
-  Custom Engineered solutions
-  Full 'in house" hydrostatic testing and certification available
-  All hoses constructed with a 4:1 safety factor
-  Integrally Moulded Flange end styles
-  Lengths manufactured up to 20mt
-  Continuous product development
-  Quality reputation
-  On-site design support
-  Custom tube and cover combinations



HoseTek is one of the foremost companies in Australia offering custom engineered rubber hoses. We pride ourselves in the high quality craftsmanship of our products, our technical expertise, proved performance and our premier customer service. Our hose designs, from standard products to large bore custom made hoses, are considered the finest in their class. HoseTek custom built hose manufacturing facility in Adelaide, has proudly been providing supply solutions for custom manufactured hose in Australia for over 20 years.



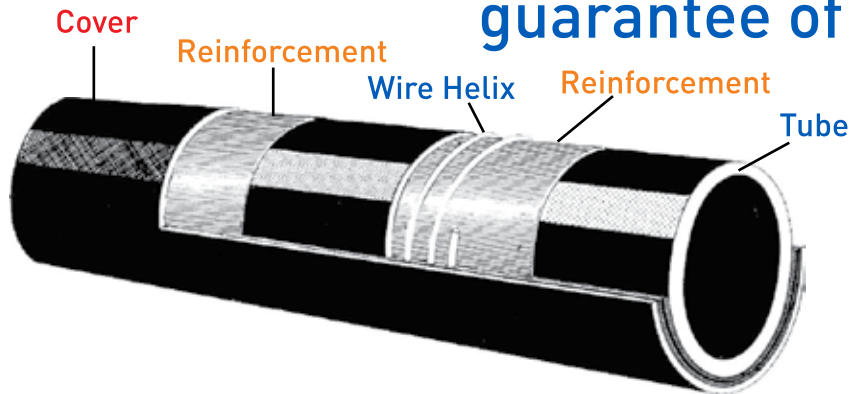
Custom built hose to suit individual needs



HoseTek



Our construction is your guarantee of quality



Tube

The tube must be compatible with and able to contain the material being conveyed. Many rubber compounds are used for tube construction, depending on the material the hose is designed to transmit and the operating temperature of the application.

HoseTek's hose tube compounds are available in a range of durable natural and synthetic compositions and chemical and heat resistant polymers.

NITRILE NATURAL RUBBER NEOPRENE (FRAS) EPDM
SBR SBR (FRAS) NITRILE (FRAS) EPDM BLENDS
BROMO-BUTYL HYPALON CHLORO-BUTYL WHITE & BLACK FDA
NON CONDUCTIVE NATURAL RUBBER

Reinforcement

The reinforcement is the strength component of the hose. It enables the hose to withstand internal and external pressure and abuse. The reinforcement depends on the eventual service conditions of the hose and is available in various materials such as synthetic yarns, steel cord or a combination of these. If a suction, non-collapsing or vacuum capability is required, then a helix wire will be incorporated.

Cover

The hose cover protects the inner carcass from wear and damage. The cover is usually a rubber compound selected for its resistance to the working environment. Typical considerations in selecting cover materials are abrasion, weathering, chemicals and oils.

NITRILE SBR(FRAS) NEOPRENE EPDM BUTYL'S
SBR NEOPRENE (FRAS) PVC NITRILE EPDM BLEND

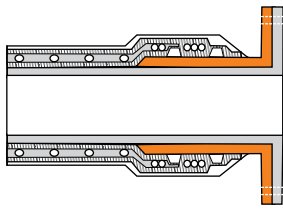
Additional blends can be formulated to suit your requirements.

Custom Length and Sizes

HoseTek provides an extensive range of mandrel lengths and sizes, and has the capability to build hoses in lengths up to 20 meters, and in nominal bore sizes up to 770mm. There are no minimum order quantities for production, so you only order what you require.

Selecting an end type for your hose that will provide optimum performance and durability *is critical* !

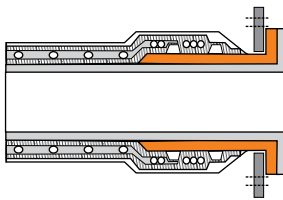
Integrally Moulded Fixed Flange Ends



HoseTek hose ends are assembled with the steel insert built into the carcass of the hose with no exposure of the metal surfaces to the medium being transferred. This end style internally wire whips the flange of the hose, minimizing fabric stress caused by movement at the flange ends.

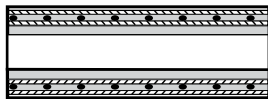
The design is reputed to be the strongest method available. The process used by HoseTek ensures complete coupling integrity, and has resulted in no reported fitting failures. This integrated type of end is suitable for applications where high tension, pressures, movements and surges within the pipeline may occur. Flanges are available to suit all drilling tables, and non-standard sizes and drillings can be plasma cut to your specifications.

Integrally Moulded Swivel Flange Ends



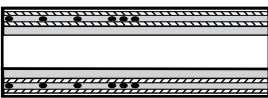
Similar to the Integrally Moulded spigot flange, with the exception of the flange, which is "floating". The swivel movement assists in the alignment of the bolt holes in installation and can also prolong the life of the hose, as it can be rotated at regular intervals to maintain an even wear.

Plain Ends



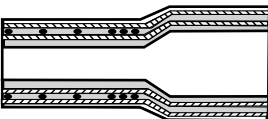
The reinforcement runs to the end of each length of hose, suitable for split flanges, muff couplings or most industrial type fittings

Cuffed Ends



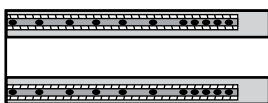
Reinforcement wire, which is stopped short of the ends creating a soft end.

Raised Cuff Ends



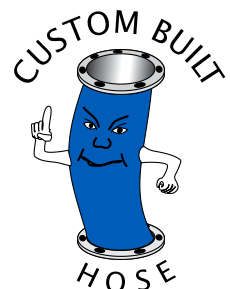
The diameter of the hose end is enlarged to accommodate outer diameters of pipes or for fitting nipple ends.

Capped Ends



Rubber is vulcanized over the hose end enclosing the reinforcement to prevent weathering and corrosion of exposed carcass materials.

HoseTek



Speciality Applications

Specialised hoses for unique applications are a crucial part of any hose system. Particularly where system failure could lead to environmental or economic disaster.

The HoseTek manufacturing plant has been providing solutions for the most difficult hose applications for over 20 years. Diverse products such as acids, chemical suction and delivery, dredge sleeves, flotation units, cylindrical dock fenders, flexible joints, petroleum and oil hose, FRAS hose, furnace door hose, rubber tubing, potable water hose, airseeder hose and nonconductive hoses - are among our regular products.

HoseTek's innovative approach to design and manufacturing has also enabled the development of rubber hoses for unique applications such as Stacker Reclaimer Reeling Hose, Seismic Sensing Hose and Peristaltic Pumping Hoses. A truly Industry Wide service.



Dredging

HoseTek's dredge hoses are widely used in the Australian dredging industry. Every hose is custom made and specifically designed to suit each individual need. Hoses can be manufactured with a "soft" or "hard" wall depending on application. The heavy-duty construction we utilise as standard, makes our hoses ideal for the harsh conditions found in the dredging industry.



Irrigation and Pumping

HoseTek's water suction and delivery hoses are available in full vacuum suction or high-pressure delivery for all industrial dewatering and irrigation application.



HoseTek



Pinch Valves

Allows On Line flow speed to be governed or halted, without disconnecting hose. Also allows hose replacement, with minimal flow interruption.

A Flexihose

Where temperature fluctuation occurs, a Flexihose allows for distortion to be taken up in metal or rigid pipelines. Especially in Hot, Arid conditions - this is the answer to both high or low pressure pipelines.



Bellows

This is the most popular method of allowing vibration, or movement in connections to generators, to be dissipated without damage to metal or fixed lines.

Mining

HoseTek's custom-built mining hose assemblies can be manufactured for suction and delivery applications ranging from low-pressure water to high-pressure slurries. Hoses are designed to provide optimum performance for each application and flanges or other coupling styles can be built into the hose as required. The swivel design enables easier installation and eliminates radial deformation occurring from the incorrect alignment of boltholes. For complete coupling integrity in mining applications HoseTek specifies integrally moulded flanged ends as standard.



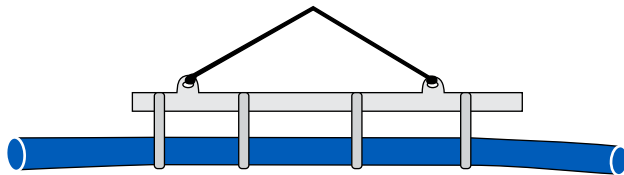
Lifting of Hoses

On Site, many hoses need precise and careful Lifting - both off of the Transporter, onto intermediate storage or transport facilities and after, into its final location.

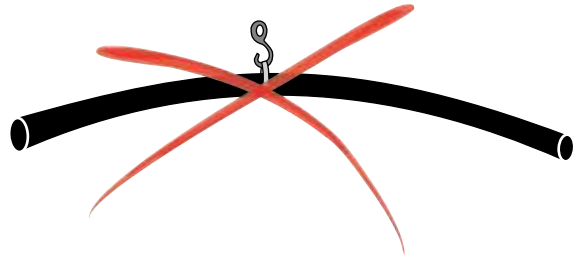
Lifting of a hose should never be attempted without a U Beam with Fabric straps, placed at the correct point along the hose length.

Under no circumstances should a single lifting point be used. Kinking and compression must be avoided as (especially with steel reinforced hoses) deformation is permanent and may affect the efficiency and life of the hose.

The diagram below shows the most efficient and safe manner to lift Hoses.



A U Beam with 4 Fabric lifting straps.



Transport

Reducing the possibility of damage to Hoses in Transit is a specialist transport application. From the method and type of crating, the packing materials used, through to the specification of the Transporter itself, all are appropriate to the successful transportation of your expensive hose.

HoseTek provide options and delivery schedules to meet all demands. Whether a mine in the outback, a dredge on water, a sea rig or a production plant in the City Centre.

HoseTek has the safe, secure answer.



TECHNICAL INFORMATION

One of the reasons HoseTek enjoys a reputation for excellence, across a range of industries, is our attention to detail at the outset of an project. It has always been our aim to understand the use and environment our products will work in. The following is part of our Technical Considerations for you to consult when considering new, upgraded or replacement hoses.

Wear

Wear is always inherent in the transfer of products through hoses and below are a list of the main factors to consider when establishing a specification for a new or revised hose application:

Causes of Wear

The % (by weight) of the solid material in the product

The particle size of the solid material

The size, distribution and profile (shape) of the solid material

The hardness and density of the solid material

The temperature of the product.

Environment

We also appreciate the diverse factors involved in specifying for hoses and that, without consultation, we can only offer a guide to establish a preliminary hose specification.

HoseTek are always available to advise on, or discuss, your requirements - but we do recommend that the following factors be considered:

The Working Pressure required

Normally 100psi minimum - but higher pressures are available on request

The Hose End type

The Bend Radius (A guide to constraints) -

Up to 150mm hose - 6 to 8 times Internal Diameter

200mm upwards - 8 - 10 times Internal Diameter

Note: The use of recommended fittings is essential

The Lifting of hoses on site

The Transport of hoses to your site -

We are happy to quote FIS or FoT.

Crated, on Skids or Palletted

The Support and Installation of hoses on site

The following pages are Reference Tables which may assist you in establishing a preliminary hose type and/or specification.

HOSETEK CUSTOM BUILT MINING HOSE

Suction/Discharge Hard wall

Nominal Bore		Tube Thickness ¹	Working pressure		OD	Bend Radius ²	Weight ³	Maximum length
mm	inches	mm	kpa	psi	mm	x Inside diameter	kg	mtrs
50	2"	6	700	100	78	6-8 x ID	3.35	20
63	2.5"	6	700	100	89	6-8 x ID	3.85	20
75	3"	6	700	100	104	6-8 x ID	5.05	20
100	4"	6	700	100	130	6-8 x ID	7	20
125	5"	6	700	100	155	6-8 x ID	8.25	20
150	6"	6	700	100	180	6-8 x ID	9.9	20
200	8"	6	700	100	235	8-10 x ID	16	15
250	10"	10	700	100	300	8-10 x ID	29.5	12
300	12"	10	700	100	352	8-10 x ID	37.7	12
350	14"	10	700	100	406	10-12 x ID	51.4	12
400	16"	12	700	100	463	10-12 x ID	65.4	12
450	18"	12	700	100	519	10-12 x ID	82.5	12
500	20"	12	700	100	570	12-14 x ID	88.3	12
550	22"	12	700	100	621	12-14 x ID	109.8	12
600	24"	12	700	100	677	12-14 x ID	115	12
700	28"	12	700	100	770	12-14 x ID	125	12
1000	40"	24	700	100	1120	12-14 x ID	300	10

All hoses manufactured with Full Integral Spigot end fittings and full 4:1 safety factor

- 1 Tube thickness - minimum recommended for abrasive applications
- 2 Bend radius - Hose will remain ridged 0.5m from flange due to full spigot fitting
- 3 Weight excludes end fittings, call for full details
- 4 Pressure and tube thickness can be increased to suit application
- 5 Various nominal bore available by request





**Already established as one of the Premiere Custom
Hose constructors in Australia, our tube,
reinforcement and cover combinations are selected to
specifically suit your application.**

**HoseTek, incorporates as standard, a working
pressure to burst safety factor
of 4:1.....**

**and end styles designed to endure the most severe
conditions.....**

**The end result is a totally customised hose that will
perform to the exacting requirements of your job.**

Paul Douglas
Managing Director



**Quality
Endorsed
Company**

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