

PRODUCT CATALOGUE

VERSION 2



Industrial Hose. Fittings & Rubber Specialists



HOSE PROPERTIES

> *What makes a hose a hose*

powellindustrial.com.au

Best Service. Best Value. Best Advice.

In focusing on our customer base, we've:

Based on our in house intellectual property and know how, from more than thirty years in the Industrial Hose and Fittings and Rubber business, increased our range of trade dedicated products.

More convenient trade opening hours. Monday to Friday – check with your local branch.

Further developed our HMP (Hose Management Program) including our PRS (Powell Rapid Service) for emergency Hose testing and replacement requirements.

Increased branch locations for better, more convenient service.

COMING SOON – New Website featuring customer login and online ordering facility for your favourite products.

Powell Industrial, formerly known as Tony Powell Hose and Fittings, was established over thirty years ago and is now Australia's largest family owned Industrial Hose, Fittings and Rubber products supplier.

Our businesses key focus is:

- Industrial Trade customer base who requires supplier expertise in the Industrial Hose, Fittings and Rubber market
- Trained knowledgeable staff
- Great team culture dedicated to genuine customer service
- Best Service. Best Value. Best Advice.

This, our latest trade catalogue, has an increased range of trade relevant information, including our exclusive 'Hose Management Program', easy reference conversion and chemical compatibility charts and more products exclusive to Powell Industrial.

Since our last catalogue was produced, Powell Industrial has gone through a number of major changes. We've acquired two major Hose, Fittings and Rubber retailers, **Fluid Handling Solution (FHS)** and **Purple Pig**. These additions have built us into a nationwide operation, now totalling twelve branches around Australia. Together, these three companies and their long associated histories in the industrial goods market, encompass well over fifty years of experience. Each company has played a major role in shaping today's Hose, Fittings and Rubber market and now all under the Powell Industrial banner offer Australia a strong and experienced brand for customers to engage with.

It's also aided in us establishing a larger and more specialised product range, which is highlighted in this new catalogue. Many of your favourite and most trusted brands and their products, from all three companies, can now be purchased from under the one roof. Greater choice and value has never been this easy to obtain from one retailer.

I would like to take the opportunity to thank you for your past support and along with the team at Powell Industrial look forward to being of service to you now and long into the future.



Don McDonald
Managing Director

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If you are having trouble finding the product you require please don't hesitate to contact your local Powell Industrial Branch for assistance.

Contact details can be found on the back cover for all our branches.

IMPORTANT NOTES:

You are currently viewing a single section or sub-section of the entire Powell Industrial Product Catalogue – Version 2.

This Table of Contents is the universal page numbering for all sections combined and therefore this copy may not reflect what is found in this document. Each of these sections (in green) and their sub-sections can be viewed and downloaded directly from our website.

If you'd like a printed copy of this catalogue please call your local Powell Industrial branch. The final page of this catalogue section houses all branch contact details.

All products found in this catalogue may not be readily available at every Powell Industrial branch.

RATINGS

All hoses are given either a vacuum or pressure rating, sometimes both. This rating is established by the manufacturer and is based on a number of factors. Abuse or other conditions of service, to which a hose will be subjected are all considered in establishing the safety factor applied to the average burst strength of a hose.



Pressure rating – This is the rating given to a hose that determines the amount of pressure that can be exerted on a hose. All hoses will have a burst pressure and a working pressure. The burst pressure specifies the maximum pressure that the hose can handle without bursting, while the working pressure is the manufacturer's recommended maximum pressure allowance in normal operation. Most industrial hoses have a minimum burst pressure as a factor of the working. Eg 4:1

In the Asia Pacific Region the standard unit of measure for pressure is PSI (Pounds per Square Inch). Other common units are mPa (megapascals) and kPa (kilopascals) The relationship between these measurements can be expressed by $100 \text{ PSI} = 0.69 \text{ mPa} = 690 \text{ kPa}$

Vacuum rating – Hoses can also be given a vacuum or suction rating. This is a measure of the hose's resistance to collapse under suction service. A vacuum is the absence of pressure, either completely or partially. A vacuum is said to exist in a hose if pressures there are less than atmospheric at that particular elevation. Difficulties in measuring vacuum and understanding vacuum ratings might be eliminated if pressure gauges started from absolute zero rather than normal atmospheric pressure. This would result in the readings from 0 to 14.7 PSI representing the vacuum. With hose we are interested in the difference between the pressure inside the hose and the pressure outside which is generally the atmospheric pressure.

In the Asia Pacific Region the most common unit of measurement for vacuum is Hg which refers to the height of mercury. This can be measured in mm (mm/Hg) or inches. 750 mm/Hg is regarded as full vacuum which would indicate a complete absence of pressure inside the hose. Most commercial pumps would not develop a full vacuum and 625 to 700 mm/Hg would be about the limit.

**PRESSURE RATINGS LISTED ARE LISTED AT
AMBIENT TEMPERATURE 20°C**

**REFER TO THE PAGE FURTHER ON FOR
TEMPERATURE vs PRESSURE RATING**



PERMEATION

GAS – All Rubber and PVC Hose will allow slight amounts of gas permeation. The extent of this permeation depends on the style of hose being used, the material being conveyed, and the pressure and temperature of the materials being conveyed. The gas will generally pass through the tube, reinforcement and the cover. However it is possible for the gas to collect under the cover and cause a blistering effect. To prevent this from occurring several styles of hoses are generally with a perforated cover. This means that the cover will have small holes pricked into it to a level just above the outside of the tube. This allows the gas to migrate under the cover to the holes and be dissipated into the atmosphere. Examples of the types of hoses would be gas, steam and diving hoses.

LIQUID – Liquids do not permeate hose tubes which have been designed correctly for the application. Some permeation could occur if there was a misapplication of hose such as a water hose being used in a petrol application.

SHRINKING OF HOSE IN STORAGE

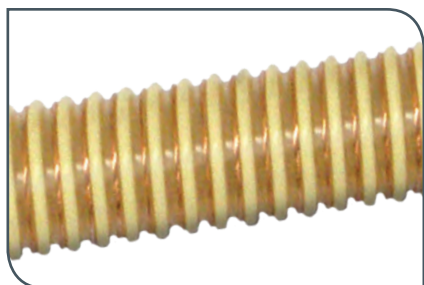
Powell Industrial packages hose in accordance with the Rubber Manufacturers Association standards for length tolerances. A 20 metre length for example, may actually measure plus 1% or 50 centimetres. This is done to combat the phenomenon of hose shrinking in storage. The flexibility of the rubber compounds allows the reinforcement to gradually contract the hose length, especially hard wall hoses with steel helix wires. Also the hose will tend to elongate to the original length when under pressure.

Application of 10 PSI is generally sufficient to cause the hose to elongate for an accurate measurement.

ELECTRICAL PROPERTIES

In the majority of situations Electrical Properties are not important in Hose applications. The notable and important exceptions occur in two areas requiring nearly opposite electrical properties.

1. Dissipation of static buildup.
2. Insulation against flow of current from high voltage sources or high electrical fields.



To fully understand the difference it is important to note the difference between conductance and resistance in relation to hoses.

Conductance = the ability of a hose to transmit electric current continuously throughout its length.

Resistance = the ability of a hose to prevent the transmission of electric current. Resistance is measured in ohms.

Where dry products are conveyed at high velocities, such as sandblast hose, a static charge can accumulate in the hose. If the hose wall has a high resistance this charge could build to a high level and a point where it may discharge through the hose wall into the atmosphere, a nearby object, or an individual in contact with the hose. In this application a hose that is anti-static will need to be used. This can be done through modified tubes that have special carbon black to reduce the static build up. The hose will then dissipate the static charges through the tube to the couplings. The couplings will then need to be grounded. Alternatively the hose can be manufactured with a static wire (usually stainless or tinned copper) which must also be grounded to the couplings.

At the other extreme hoses that have a very high resistance (low conductance) are used in applications where very high electrical insulation properties are needed. These would include conduit hoses, aluminium pot room hoses and hoses which may come into contact with high voltage lines. These type of hoses are generally referred to as non-conductive.

While the amount of applications requiring these styles of hoses are very few it is important that the correct hoses are used in these applications and the difference between non-conductive and anti-static fully understood.

STEAM

Gauge Pressure	Temp. of Satu. Steam (°F)
10	239
25	267
50	298
75	320
100	338
125	353
150	366
175	377
200	388
225	397
250	406

Steam has traditionally been one of the most basic yet least understood components of industry, particularly regarding rubber hose service.

Steam is the gaseous or vapour state of water. Water is heated until it boils and changes from liquid to vapour. With hose we must add one more factor to the equation; Pressure. Pressure has a direct relationship to the amount of heat required to turn water into vapour. The table shows the temperature required at a given pressure to turn water to steam or vapour. The higher the pressure the higher the temperature necessary. Once water has been changed to vapor it will become one of two basic types of steam; Saturated or Superheated SATURATED Steam is created at the boiling point, ie the temperature and pressure where water changes to steam. Saturated steam can be either wet (containing unvaporized water particles) or dry (with no unvaporized water). If the temperature at a given pressure is increased above the point necessary to maintain the steam we now have SUPERHEATED steam. Steam can also become superheated if the pressure drops and the temperature remains unchanged.

PVC HOSE & HEAT

Temp. °C	Burst Pressure %
20	100
30	80
40	60
50	50
60	40

PVC is a thermoplastic material, and therefore burst pressure varies with temperature. The graph shows variation in burst pressure with temperature for PVC Hoses.

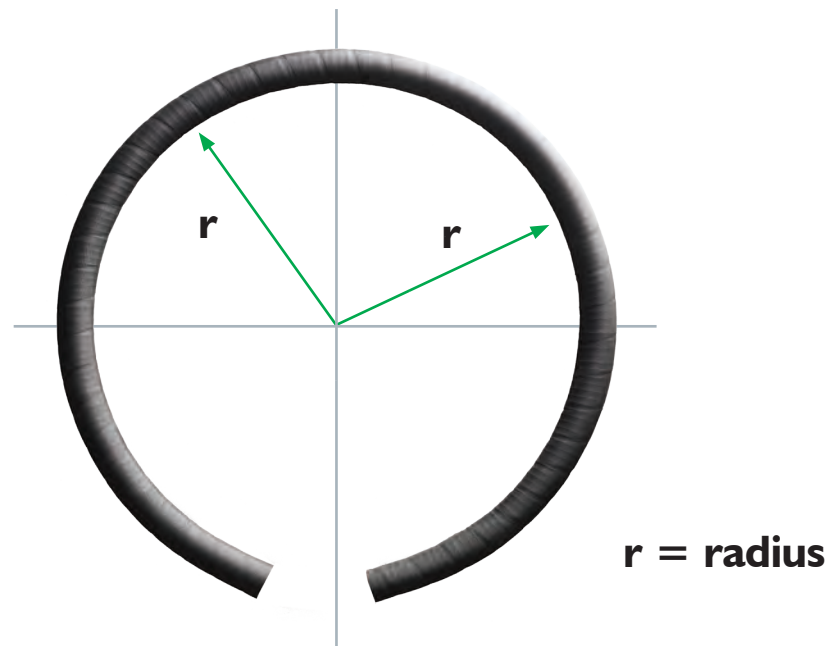
To be used as a guide only

BEND RADIUS

The flexibility and minimum bend radius are important factors in hose design and selection. The bend radius (r) is the radius of the arc through which a hose is bent. The minimum bend radius is the tightest arc in which a hose can be bent without kinking or otherwise damaging the hose.

Bending a hose to a tight radius imposes stresses on the structure of the hose which may cause a reduction in the performance, or in extreme cases cause permanent damage to the hose.

The minimum bend radius that a hose will withstand depends upon many factors including the wall thickness, the presence of a wire helix, the type of reinforcing material and the loss of performance that can be tolerated.



RUBBER HOSE CONSTRUCTION

Hose is manufactured in the uncured state by forming a cylindrical tube over which a reinforcement and cylindrical cover are applied. In this uncured form, a hose tube will often need support to maintain proper internal diameter and dimensional tolerances while being passed through the various stages of manufacture.

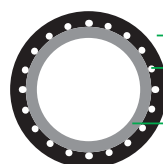
Thus the **Three Basic Methods of Making Hose** have evolved:

Non-Mandrel Style – is generally used for lower working pressures, (less than 500 PSI) smaller diameter (less than 50 mm) and textile reinforced products not requiring stringent dimensional tolerances. This process involves extruding the tube, reinforcing and cover in the unsupported mode (without a mandrel). Generally low pressure air is used inside the tube for minimal support, keeping the tube from flattening during the reinforcing process.

Flexible Mandrel Style - is generally used for mid-range working pressures (up to 5000 PSI) with ID's of 4 mm to 40 mm. When moderate tube processing support is needed and more accurate dimensional tolerances are a concern, flexible mandrels may be utilized. These mandrels are rubber or thermoplastic extrusions, sometimes with a wire core to minimise distortion. Examples of this style of product are Power Steering, Hydraulic, wire braided and air conditioning hoses.

Rigid Mandrel Style – is used where flexible mandrels become quite cumbersome to handle, working pressures are high, or stringent dimensional control is required. The rigid Mandrels are normally aluminium or steel and in food applications Stainless Steel can be used. The Mandrels are generally hollow. The hose tube will be either extruded onto the Mandrel, pneumatically pulled onto the Mandrel or wrapped in sheets onto the Mandrel. Rigid Mandrel products are unique in that they can be manufactured on a horizontally stationary Mandrel that rotates so that hose material can be applied in bias style. The alternative to this is that the Mandrel can be fed through the tubing, reinforcing and covering operations and the various hose components are applied by rotating around the mandrel and spirally fed onto the Mandrel. This style of manufacturing is often referred to a wrapped Hose. (Rubber Type)

Rubber Compound	Properties
Natural (NR)	Excellent physical properties including abrasion and low temperature resistance. Not resistant to fuels and oils.
Styrene Butadiene (SBR)	Good Physical properties, including abrasion resistance. Not resistant to fuels & oils
Nitrile (NBR)	Excellent resistance to petroleum based fluids (moderate resistance to aromatics) Good physical properties.
Neoprene (CR)	Excellent weather and ozone resistance, flame retarding. Moderate resistance to oil and chemicals.
Ethylene Propylene (EPDM)	Excellent resistance to steam, ageing, ozone and chemicals. Not resistant to fuels & oils.
Hypalon (CSM)	Excellent resistance to ozone, weathering and acid. Good abrasion and heat resistance. Fair resistance to petroleum based fluids.
Butyl (IIR)	Very Good weathering resistance, low permeability to air. Good physical properties. Poor resistance to petroleum based fluids.
Cross Linked Polyethylene (XLPE)	Excellent resistance to most solvents, chemicals, oils and fuels (including aromatics).



COVER: Outer layer that protects the hoses reinforcement and inner tube.

REINFORCEMENT: Braided or spiral lapped over and around the tube this sheath is designed to add strength to the hoses construction and extend its potential uses. Usually sits between the tube and cover.

INNER TUBE: The channel used to convey the media. This can be made from various compounds, which are selected dependent on the media that the tube has been designed to convey.

NOTES

HMP – HOSE MANAGEMENT PROGRAM



HMP

Powell Industrial Hose Management Program powered by INFOCHIP can include a range of the following features:

- Review of your current hose assembly use and needs
- Review that the hoses are fit for application
- Agree on maintenance program to suit your business
- All hoses whether existing under a maintenance program or new, are tested to Australian Standards following NAHAD guidelines, which can be on-site at your premises with our mobile test facility or off-site at our own maintenance facility

The following is included in our test and record stage:

- Test number and Visual Tag
- Allocation of INFOCHIP RFID Chip
- Date of inspection and/or testing
- Retest date tracking if required
- Name of person performing the test
- Description of hose and its condition
- Test Pressure
- Working Pressure
- Result of test and/or inspection

Through the unique INFOCHIP integrated solution you can:

- View hose assembly history & records online 24/7
- Receive automated e-mail alerts advising on a hose that's due for a re-testing inspection
- Use RFID Chips and portable readers with Internet upload allowing you to immediately identify a hoses location, history of repairs, certifications etc
- See test certificates instantly for each identified hose online



For more information regarding our Hose Management Program and how it can work for you please speak with your Account Manager or call your local branch and ask for an introduction to HMP. If you wish to learn more about INFOCHIP you can visit the the INFOCHIP website **www.infochip.com**



HOSE ASSEMBLIES

Our speciality is the supply of fitted hose assemblies that can be tagged, tested and implanted with an RFID Microchip to track the hose through its life cycle. All of our hose assemblies are built to the relevant NAHAD or Australian Standard, to ensure total compliance to every state legislation.

Testing

The Testing Procedure

VISUAL INSPECTIONS

The visual inspection allows us to pick up any mechanical damage, corrosive damage or wear and tear that may have occurred during installation, use or even during storage. Each hose assembly is inspected for kinks, loose covers, bulges or ballooning, soft spots, cuts, broken wires or any obvious defect in the hose. The fittings and attachments are inspected for any type of visual defect that may affect the performance of the assembly also.



PRESSURE AND SUCTION TESTING

Hose testing is a procedure conducted at Powell Industrial to ensure that any hose we build for either pressure or suction purposes will perform efficiently and reliably in its intended application. Whilst we provide pressure and suction hoses to a variety of customers, our most predominant recipients of tested hose assemblies include Original Equipment Manufacturer's (OEM's) of specialised vehicles.



If required, any hose assembly built at Powell Industrial can be subjected to either pressure or suction testing. All testing is carried out in strict accordance with Australian Standard AS1180 7J & NAHAD Standards.

ASSOCIATIONS & PROCEDURES

More benefits to having Powell Industrial as your key partner in the supply of Industrial Hose and Fittings:

- Powell Industrial are proud members of NAHAD, the US based key world Association for Hose and Accessories Distribution
- Most of our frontline sales and warehouse staff have sat and passed the NAHAD exam for Industrial Hose Assembly Specification Guidelines



- We are a member of **ADIA** – The Australian Drilling Industry Association
- **S.T.A.M.P.E.D.** – at Powell Industrial we strictly follow the STAMPED procedure to insure as best as we can that we supply the correct hose for your application. In co-operation with our customers, by following STAMPED we endeavour to obtain the maximum information required to provide a quality hose assembly

S	SIZE	ID, OD and length.
T	TEMPERATURE	Of the material conveyed & the environment.
A	APPLICATION	Conditions of use. Delivery, suction or both.
M	MATERIAL	Contents being conveyed, type & concentration.
P	PRESSURE	What the assembly will be exposed to.
E	ENDS	Style, type, orientation, attachment.
D	DELIVERY	Testing, quality, packaging, delivery timing.

HOSE ASSEMBLY REQUEST SHEET

STAMPED HOSE ASSEMBLY REQUEST



powered by INFOCHIP

Customer copy: Photocopy this form, complete fields and then scan and e-mail or fax to your nearest Powell Industrial Branch

Customer contact:

Company:

Address:

Ph:

Order date:

Date Required:

TEST:

☐

Pressure

☐

Vacuum

☐

Untested

Comments:

SIZE ID/OD/Length	I.D. (mm)	O.D. (mm)	Length (m)	Overall Length (m)	Quantity	Comments

TEMPERATURE Material conveyed & environment	Internal	°C	Specify/comment:
	External	°C	

APPLICATION Conditions of use	<input type="checkbox"/> Suction	Notes:
	<input type="checkbox"/> Delivery	Notes:

MATERIAL Material being conveyed	<input type="checkbox"/> Water	<input type="checkbox"/> Air	<input type="checkbox"/> Abrasive	<input type="checkbox"/> Steam	<input type="checkbox"/> Petrol/Oil	<input type="checkbox"/> Chemical
	Details:					

PRESSURE Assembly will be exposed to	kPa	PSI	Bar	Comments

ENDS Orientation, style, type, attachment method	End 1	Description:				
	End 2	Description:				
	Hose	Description:				
	Fitting method	Crimp/Ferrule: <input type="checkbox"/> Alum <input type="checkbox"/> SS <input type="checkbox"/> Plated Steel		Clamps: <input type="checkbox"/> Worm <input type="checkbox"/> T Bolt <input type="checkbox"/> SemiSS <input type="checkbox"/> FullSS		Qty per end: <input type="text"/>

DELIVERY Testing, quality, packaging, time	Collect	Courier	Transport

Special instructions	
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WARRANTY

WARRANTY:

Powell Industrial is a 'distributor' and not a manufacturer of products. We offer the 'Warranty' provided by the original manufacturer and are bound solely by these requirements.

On items directly imported (therefore the deemed manufacturer), the warranty offered varies depending on the product and the original source of manufacture. Most items are warranted against faults and defects in manufacture for a period of 12 months, however Powell Industrial assumes no responsibility for the following:

- Improper installation or failure to follow fitting nor application instructions
- Exceeding manufacturers pressure or material guidelines
- Failure due to improper maintenance
- Indirect or consequential loss or damage
- Cost of freight or travelling time
- Product 'Fit for Use' is to be solely ascertained by the customer unless specifically requested in writing to Powell Industrial, and Powell Industrial confirms in writing of specific 'Fit for Use' requirements

TRADING HOURS:

Monday to Friday – check with your local branch.

SETTLEMENT TERMS:

All trade credit accounts are strictly nett 30 days from the close of the month that items have been invoiced. Non account customers are strictly CBD – (Cash Before Delivery through accepted credit card or EFT deposit in clear funds).

GST:

Prices quoted are based on Business to Business trading, and generally are exclusive of GST. GST or any tax applicable will be governed by the laws operating in Australia at the time of sale.

SPECIAL ORDERS:

Non stock items sourced and purchased on your behalf are subject to the relevant suppliers trading terms and conditions.

All Special Orders MUST be received in writing and will include a signed Powell Industrial Special Order confirmation form. Unless due to faulty manufactured product, Special Ordered items are NON RETURNABLE or refundable.

Hose or Hose Assemblies cut or made to customers requirements, whether from stocked lines or specially ordered are NON-RETURNABLE

RETURNS FOR CREDIT

Stock items maybe returned for credit providing the following:

- Company is notified within 14 days
- Goods returned must be in original condition, free from defects and in Powell Industrial's view, 'Fit for Sale'
- Copy of invoice to accompany goods for return is provided
- Return authority reference will be provided and needs to be attached to goods
- Cuts of products, special manufactured assemblies and non-stock buy ins are all non-returnable
- Re-stocking fee of 25% plus reimbursements freight costs apply

FAULTY OR DAMAGED GOODS

Above conditions apply, however Powell Industrial reserves the right to reject any claim(s) where the item has been opened, installed or used in any application that is not 'Fit for Purpose' or that may void the manufacturer's warranty.

CATALOGUE DISCLAIMERS

POWELL INDUSTRIAL makes every effort to provide accurate information within its catalogues. However, it will not be held responsible for errors (pictorial or written) and omissions arising from oversights, printing errors, errors in source material and changes in manufacturers' specifications.

Information provided relating to product specifications is believed correct at the time of compilation of the catalogue. Manufacturers' specifications can change from time to time and are not always communicated by them. Nor is it possible for POWELL INDUSTRIAL to retrospectively advise its customers of these changes. In addition; POWELL INDUSTRIAL reserves the right to substitute similar brands or products for the listed products application due to the non-availability of the listed product or brand; or other reason(s) as it sees fit. If you have a concern about a substituted product please discuss with our Customer Service staff or your POWELL INDUSTRIAL representative.

Where it is known that the correct specification of hose &/or fittings &/or assembly method is critical either from a performance or safety perspective, POWELL INDUSTRIAL recommends that such requirements are confirmed as being met by the product &/or assembly specifications before putting said products &/or assemblies into service.

Imagery: Actual products supplied may vary in appearance to those pictured as reference in this catalogue. All images should be used as a guide only.

Please note all products found in this catalogue may not be readily available at every Powell Branch location.

NB: Fuel Compatibility. Modern fuel additives and blends e.g. Ethanol; can render traditionally used hoses unsuitable for fuel transfer. Many compatibility charts and manufacturers catalogues are yet to catch up with these changes; e.g. PVC hoses that have traditionally been made with a Fuel Resistant PVC blend; in the main are not compatible with Ethanol in fuel. If you intend using a hose for the transfer of Ethanol fuel, Bio Fuel or other 'non-standard' fuel or additive, you should advise POWELL INDUSTRIAL of this and seek confirmation that the product to be supplied is compatible.

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