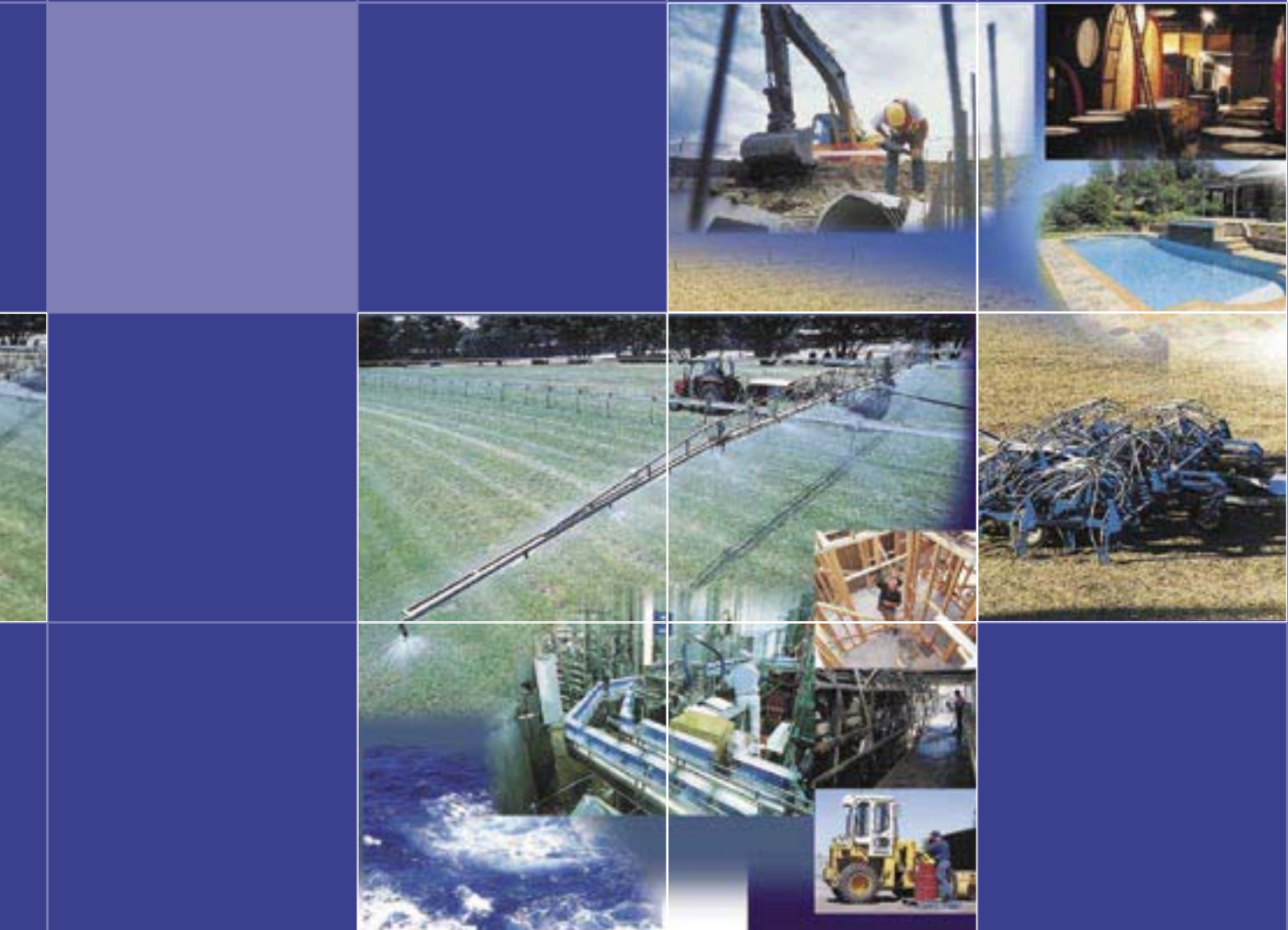




# The Future of Hose Technology



Pressure Hose

Tubing

Suction & Delivery Hose

Pool Hose

Barflo

Layflat





# Corporate Overview

Barfell Industries is a wholly Australian owned private company, and has been operating for over 50 years. For the past 40 of those years we have been manufacturing PVC hoses, supplying the white goods, agricultural, mining, building and manufacturing sectors. We are dedicated to high quality and innovative design, marketing custom products direct to the manufacturing sector, as well as a broad range of branded hoses sold by distributors throughout Australia and in many other countries.

Located in Mordialloc, Victoria, the principal owners are active in the company and employ over 50 people, with the factory and warehouse covering over 5,000 square metres (54,000 sq. feet).

Barfell is an ISO 9001 Quality Endorsed company and has a strong commitment to high standards. The Barfell brand has earned a well deserved reputation over the years for its consistent high quality.

The wide range of products made include reinforced pressure hoses, tubing, suction hoses, ducting, swimming pool hoses, medical corrugated tubing, garden hose and vacuum cleaner hoses. The company also supplies fitted gas hoses (to Australian Gas Association standards) and fitted assemblies to the white goods industries. The range includes products using a variety of plastics including PVC, EVA, urethanes and thermoplastic rubbers.

The company also stocks and markets Tema hydraulic and pneumatic quick connect couplings, Oetiker hose clamps and Sunny layflat hoses.

We have a thorough understanding of industrial hose and the need for rapid response to industries needs and remain committed to exceptional customer service.

Garry Jackson  
Director, General Manager

Don't forget previous Nylex products are now included in this Barfell brochure!



Index	Page No
Pressure Hoses . . . . .	2 to 8
Tubing . . . . .	8 to 9
Barflex PVC Suction Hose . . . . .	10 to 15
Sunny Layflat Hose . . . . .	16
Barflo Hose . . . . .	17 to 18
Pool Hose . . . . .	19
Chemical Resistance Tables . . . . .	20 to 22

# Pressure Hoses



## Super Ultraflex



General purpose air and water hose with a highly distinctive yellow & blue stripes, optimum flexibility, resilience & kink resistance.

Exceeds AS/NZ2554 Class B for burst pressure, wall thickness, abrasion resistance, weathering resistance, low temperature flexibility, ozone resistance and bond strength.

### Applications

Suitable for general purpose air & water supply. Also suitable for the conveyance of liquids, gases and some chemicals. Ideal for high pressure air lines and compressors. Inner wall: black, outer wall: yellow with blue stripe.

Nominal		Working		Burst		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.	Pres. @ 20°C Mpa	P.S.I.		
6	12.8	2.0	290	8.0	1,160	0.13	20, 100s, 300r
8	14.8	2.0	290	8.0	1,160	0.16	20, 100s, 300r
10	16.6	2.0	290	8.0	1,160	0.17	10, 15, 20, 30 80s, 100, 300r
12.5	19.3	2.0	290	8.0	1,160	0.19	20, 55s, 100, 250r
20	29.0	1.6	230	6.4	920	0.45	20, 80r, 100, 100r
25	34.6	1.6	230	6.4	920	0.62	20, 75r, 100,
32	43.4	1.6	230	6.4	920	1.15	20, 60
38	50.6	1.6	230	6.4	920	1.56	20, 40
50	64.6	1.6	230	6.4	920	2.40	20, 40

## Standard AW ~ Yellow



A general purpose safety yellow air & water hose, with excellent flexibility, kink resistance and toughness.

Meets AS/NZ2554 Class B. Excellent abrasion resistance makes the hose ideal for the more demanding applications.

### Applications

Suitable for all general purpose air, water and some chemical applications. Inner wall: black, outer wall: yellow.

Nominal		Working		Burst		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.	Pres. @ 20°C Mpa	P.S.I.		
6	11.0	1.6	230	6.4	920	0.10	20, 100, 300r
10	16.4	1.6	230	6.4	920	0.18	20, 100
12.5	18.9	1.6	230	6.4	920	0.22	20, 100
19	26.5	1.6	230	6.4	920	0.38	20, 100r
25	34.4	1.6	230	6.4	920	0.62	20, 100
32	42.0	1.6	230	6.4	920	0.90	20, 100
39	49.0	1.0	145	6.4	920	1.07	20, 60

## Blue Coldflex



For air, water and fluid transfer where low temperature flexibility is required. Oil mist resistance makes the hose the ideal choice for nail guns and other air operated hand tools.

Meets AS/NZ2554 Class B.

### Applications

Air lines to all pneumatic tools and portable equipment. Inner wall: black, outer wall: smooth blue.

Nominal		Working		Burst		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.	Pres. @ 20°C Mpa	P.S.I.		
6	11.5	2.0	290	8.0	1,160	0.13	20, 100, 300r
8	14.0	2.0	290	8.0	1,160	0.13	20, 100, 300r
10	16.6	2.0	290	8.0	1,160	0.18	20, 30, 70s, 100, 200r
12.5	18.9	2.0	290	8.0	1,160	0.22	20, 55s, 100, 200r
19	26.5	1.6	230	6.4	920	0.51	20, 100r
25	34.4	1.6	230	6.4	920	0.72	20, 100



# Pressure Hoses

## Ultra Air



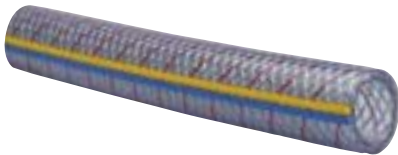
A flexible, light, low cost air line. Good oil mist resistance makes this the ideal choice for portable compressor air lines.

Inner wall: black, outer wall: smooth blue

Can be custom branded.

Nominal		Working		Burst		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.	Pres. @ 20°C Mpa	P.S.I.		
10	15.0	1.6	232	4.8	696	0.19	20, 30, 100, 200, 250r

## TMP II



The hose is highly flexible but kink resistant with a highly distinctive dual striping.

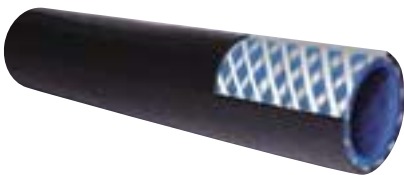
A translucent multi purpose food contact hose. It meets AS2070 1999, with a food contact inner and outer covering.

### Applications

Suitable for air, water, food and beverage liquids, semi liquids and petroleum based products. Inner wall: clear, outer wall: clear with yellow & blue stripes.

Nominal		Working		Burst		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.	Pres. @ 20°C Mpa	P.S.I.		
6	10.2	1.4	200	5.6	800	0.08	20, 100s, 300r
8	12.4	1.4	200	5.6	800	0.10	20, 100s, 300r
10	15.0	1.4	200	5.6	800	0.14	20, 80s, 300r
12.5	18.1	1.4	200	5.6	800	0.19	20, 55s, 100, 250r
16	22.8	1.4	200	5.6	800	0.30	20, 100
20	27.6	1.4	200	5.6	800	0.40	20, 80r, 100
25	33.4	1.4	200	5.6	800	0.54	20, 75r, 100
32	41.8	1.2	175	4.8	700	0.97	20, 60
38	49.8	1.2	175	4.8	700	1.32	20, 40
50	64.2	0.9	131	3.6	524	2.12	20, 40

## Sprayflex 300



A premium hose designed for medium pressure weedicide, pesticide and general chemical transfer. Its distinctive blue inner tube is a PVC/Nitrile blend, giving excellent resistance to most hydrocarbon solvents including aromatics, resulting in an extended life in the most demanding applications. The black outer cover is also chemical and ultraviolet light resistant.

### Applications

Transferring diluted weedicides, pesticides in general agricultural and horticultural applications. Inner wall: blue, outer wall: smooth black.

Nominal		Working		Burst		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.	Pres. @ 20°C Mpa	P.S.I.		
8	14.4	2.1	297	8.2	1,190	0.15	20, 100s, 200r
10	16.4	2.1	297	8.2	1,190	0.19	20, 80s, 300r
12.5	19.0	2.1	297	8.2	1,190	0.22	20, 100, 55s, 250r
20	27.5	2.1	297	8.2	1,190	0.42	20, 100
25	35.2	2.1	297	8.2	1,190	0.63	20, 100
32	43.0	2.1	297	8.2	1,190	0.66	20, 60
38	52.0	2.1	297	8.2	1,190	1.35	20, 60

## Super AG Spray ~ Red



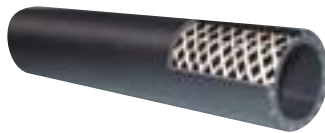
A premium hose designed for high pressure weedicide and pesticide transfer operations.

### Applications

Resistance to most chemicals and hydrocarbon based solvents making it suited to a wide range of applications. Inner wall: clear, outer wall: smooth red.

Nominal		Working		Burst		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.	Pres. @ 20°C Mpa	P.S.I.		
10	17.0	4.0	580	16.0	2,320	0.18	20, 100
12.5	20.3	4.0	580	16.0	2,320	0.28	20, 100

## Drum Pump ~ Black



Petrol and oil resistant hose with excellent flexibility. The PVC/Nitrile blend inner tube is highly resistant to hydrocarbons including aromatics. Excellent resistance to UV light ensures a long life. Good low temperature flexibility. A three metre retail display pack is also available.

### Applications

Dispensing fuels from overhead tanks and drums. Inner wall: black, outer wall: smooth black

\* 25mm now includes twin antstatic copper wires for increased safety when used to transfer volatile solvents.

Nominal		Working		Burst		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.	Pres. @ 20°C Mpa	P.S.I.		
19	27.0	1.0	145	4.0	580	0.36	20, 50s, 100
*25	33.5	1.0	145	4.0	580	0.55	3, 20, 60

## PR ~ Anti-Static ~ Petrol



A superior petrol resistant hose with a blue PVC/Nitrile blend inner tube for excellent resistance to unleaded fuels. All sizes incorporate twin copper anti-static wires for added safety.

### Applications

Dispensing oil, greases, petrol (including unleaded), diesel and home heating fuel. Ideal as a tanker delivery hose. Inner wall: blue PVC/Nitrile blend, outer wall: ribbed black with anti-static wires.

Nominal		Working		Burst		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.	Pres. @ 20°C Mpa	P.S.I.		
25	34.0	1.3	193	5.3	770	0.60	20, 100
32	42.0	1.2	175	4.8	700	0.80	20, 60
40	52.4	1.0	145	4.0	580	1.20	20, 40



# Pressure Hoses

## Fras



Fire resistant anti static hose with unique 3 layer construction that offers optimum performance and handling characteristics.

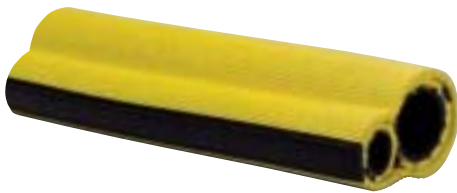
Manufactured to AS2660 Class A (1991) and AS/NZ2554 Class A.

### Application

Underground air and water mining hose. Inner wall: black, outer wall: ribbed yellow with black stripe.

Nominal		Working		Burst		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.	Pres. @ 20°C Mpa	P.S.I.		
10	18.0	2.1	305	8.4	1,220	0.25	20, 100
12.5	20.9	2.1	305	8.4	1,220	0.26	20, 30, 33, 100, 200r
20	29.4	2.1	305	8.4	1,220	0.58	20, 30, 100
(300psi)							
25	34.8	2.1	305	8.4	1,220	0.71	30, 33, 100
(500 psi)							
25	34.8	3.4	500	13.6	2,000	0.72	20, 30, 33, 100, 200
38	48.8	2.1	305	8.4	1,220	1.19	20, 40, 150, 200
50	62.4	2.1	305	8.4	1,220	1.80	20, 40, 100

## Mine Bolt



It is manufactured to AS2660 Class A (1991) and AS/NZ2554 Class A.

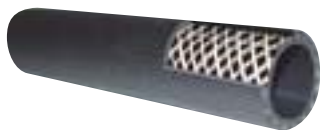
### Application

Underground air and water mining hose. Inner wall: black, outer wall: ribbed yellow with black stripe.

Fire resistant anti static twin hose with 12.5mm and 25 mm hoses permanently coupled together as one hose. Each hose has a unique 3 layer construction that offers optimum performance and handling characteristics.

Nominal		Working		Burst		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.	Pres. @ 20°C Mpa	P.S.I.		
12.5 / 25	20.9 / 34.8	2.1	305	8.4	1,220	1.51	100, 150

## Fire Reel Hose ~ Black



Manufactured to AS/NZ1221. The hose is lightweight, flexible, resistant to UV light and has self extinguishing properties.

### Applications

Stationary or mobile hose reels in fire control systems located in commercial or public buildings. Inner wall: black, outer wall: ribbed black.

Nominal		Working		Burst		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.	Pres. @ 20°C Mpa	P.S.I.		
19	26.0	1.0	145	4.0	580	0.36	36, 100
25	31.5	1.0	145	4.0	580	0.55	36, 100

# Pressure Hoses



## Divers ~ Air Breathing



Approved braided divers air breathing hose for professional and sports diving. Also suitable for breathing apparatus for spray booths and sand blasting.

Conforms to AS2299 and AS/NZ1716. Outer cover pricked for added safety.

### Application

Diving, air breathing applications. Inner wall: white, outer wall: smooth yellow.

Nominal		Working		Burst		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.	Pres. @ 20°C Mpa	P.S.I.		
8	14.3	1.6	235	6.4	930	0.14	50,100,300r
10	17.0	2.5	365	10.0	1,450	0.22	50,100,300r

## Estate ~ Bluline



Highly flexible premium hose for watering parks and gardens. With high visibility and two distinctive blue stripes, it is kink, burst and UV light resistant.

### Applications

All commercial parks, gardens and turf watering applications. Ideal as a general cold water wash down hose in cattle yards and dairies. Inner wall: black, outer wall: smooth white with blue stripes.

Nominal		Working		Burst		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.	Pres. @ 20°C Mpa	P.S.I.		
12.5	19.0	1.0	145	4.0	580	0.22	20, 100
19	26.5	1.0	145	4.0	580	0.40	20, 100
25	34.0	1.0	145	4.0	580	0.58	20, 80r, 100
32	42.5	1.0	145	4.0	580	0.85	20, 75r, 100
38	49.5	1.0	145	4.0	580	1.11	20, 60

## Pastoral White



A ribbed cold water wash down hose and general purpose water hose. Good flexibility and abrasion resistance makes the hose the ideal choice for dairy washdown or general parks and gardens irrigation.

### Applications

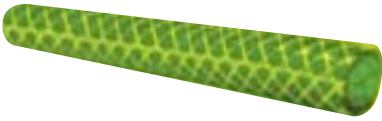
Parks and gardens, general rural use. Inner wall: black, outer wall: ribbed white.

Nominal		Working		Burst		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.	Pres. @ 20°C Mpa	P.S.I.		
12.5	19.0	1.2	175	4.8	700	0.22	20, 55s, 100
19	26.5	1.2	175	4.8	700	0.37	20, 50s, 100r
25	34.0	1.0	145	4.0	580	0.58	20, 30s, 100
32	43.0	1.0	145	4.0	580	0.90	20, 100



# Pressure Hoses

## Aquamate



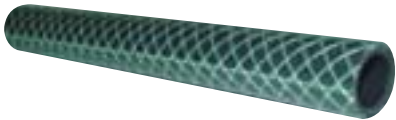
A premium quality, higher pressure heavy duty garden hose with excellent flexibility and kink resistance. With its higher quality construction and excellent resistance to UV light, the hose can be expected to give outstanding service for many years.

### Applications

General domestic and commercial use. Inner wall: translucent green, outer wall: translucent yellow.

Nominal		Working		Burst		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.	Pres. @ 20°C Mpa	P.S.I.		
12	16.5	0.8	110	3.0	435	0.15	20, 35, 100
18.5	24.5	0.8	110	3.0	435	0.28	20, 35, 100r
25	31.0	0.8	110	3.0	435	0.44	20, 35, 100

## Garden Hose ~ Green



A high quality reinforced flexible garden hose. Excellent kink resistance and good UV light resistance.

### Applications

General domestic use. Inner wall: black, outer wall: translucent green.

Nominal		Working		Burst		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.	Pres. @ 20°C Mpa	P.S.I.		
12	16.5	0.6	90	2.4	350	0.15	20, 30, 100, 200r
19	25.2	0.6	90	2.4	350	0.31	20, 30, 100r
25	32.0	0.6	90	2.4	350	0.39	50

## Hot Wash ~ White



Highest grade hose for hot washdown use in the food industry. The thermoplastic rubber smooth outer cover is highly resistant to lactic acid and fats.

### Applications

Hot washdown of all food preparation and retail areas, where milk, fats and other food products are present. Inner wall: white, outer wall: white, with smooth TPR surface. Rated to 85°C when used at low pressure.

Nominal		Working		Burst		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.	Pres. @ 20°C Mpa	P.S.I.		
12.5	19.7	2.0	290	8.0	1,160	0.28	20, 100
19	28.0	1.8	250	7.0	1,015	0.48	20, 100

## Drinking Water Hose



For the transfer of drinking water. Manufactured to AS2070 1999 and AS4020 to ensure that there is no taint or smell imparted to the drinking water.

### Application

Transferring potable water to caravans, boats or drinking containers. Inner wall: clear, outer wall: smooth white with blue stripes.

Nominal		Working		Burst		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.	Pres. @ 20°C Mpa	P.S.I.		
12	17.0	0.8	110	3.0	440	0.23	20, 60s, 100

# Pressure Hoses & Tubing



## Washing Machine Hose



### Application

Washing machine water inlet hoses, hot and cold.  
Inner wall: black, outer wall: ribbed white

Assemblies are a non stocked item, and minimum order quantities may apply.

Designed for hot and cold water connections to washing machines. Will not mark painted walls or enamelled appliances.

Nominal		Working		Burst		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.	Pres. @ 20°C Mpa	P.S.I.		
10	17.5	2.0	290	8.0	1,160	0.23	20, 60s, 100, 200r
12.5	20.5	2.0	290	8.0	1,160	0.25	20, 45s, 100, 200r

## Lilac Reclaimed Water Hose



### Application

Watering parks and gardens with reclaimed water. Also suitable for use as a domestic garden hose. Inner wall: black, outer wall: smooth lilac.

A hose specially formulated for use with reclaimed water. Its Lilac cover complies with the international standard for use with reclaimed water. The hose has "RECLAIMED WATER NOT FOR DRINKING" printed along its length for added safety.

Nominal		Working		Burst		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.	Pres. @ 20°C Mpa	P.S.I.		
19	25.5	1.0	145	4.0	580	0.27	20, 100
25	34.4	1.0	145	4.0	580	0.60	20, 100

## Eva - Beverage Tube



### Application

Dispensing beverages, including beer and mixed drinks. Transferring most fluid and semi fluid foodstuffs. Wall: translucent.

Formulated from Ethylene Vinyl Acetate, a food grade compound, it will not taint foodstuffs and beverages. It has good flexibility, a mirror smooth bore and excellent abrasion resistance

Nominal		Working		Weight Kg/m	Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.		
4	7.0	0.28	40	7	100
5	8.0	0.28	40	12	100
6	10.0	0.28	40	16	100
8	12.5	0.28	40	20	100
10	15.0	0.28	40	46	100
12.5	17.5	0.28	40	66	100

## Anfo Blast Tube



Wall: black with orange stripe.

For the transfer of ANFO explosives. Conforms to AS2187.2 - 1993

	Nominal		Weight Kg/m	Coil Lengths in Metres
	I.D. (mm)	O.D. (mm)		
Rigid	19	26.0	270	30, 60
	25	33.0	445	30, 60
Flexible	19	26.0	390	30, 60
	25	33.0	642	30, 60



# Tubing

## PVC ~ Non Toxic ~ Clear



Non toxic tube manufactured to AS2070 1999 with excellent clarity, flexibility and mirror smooth bore for low friction flow.

### Application

Suitable for food & beverage fluids, medical drainage and low pressure general delivery lines. Wall: clear.

### + Cafeteria tube

Nominal I.D. (mm)	O.D. (mm)	Working Pres. @ 20°C		Weight Kg/m	Coil Lengths in Metres
		Mpa	P.S.I.		
3	5.0	0.9	125	17	30, 300s
4	7.0	0.8	120	35	30
5	8.0	0.8	115	42	30, 120s
6	9.0	0.6	90	48	30, 100s
8	11.0	0.5	75	61	30, 150s
10	13.0	0.4	60	74	30, 130s
+ 10	15.0	0.6	90	134	30
12.5	15.5	0.5	70	90	30, 90s
16	19.0	0.4	60	113	30, 60s
19	23.0	0.4	50	181	30, 40s
25	31.0	0.4	50	360	30
32	38.0	0.3	40	452	30
38	46.0	0.3	40	712	30
50	60.0	0.3	40	1,165	15

## Nylon



Nylon pressure tubing is made from premium quality raw materials and precision engineered to ensure simplicity of connections with fittings and adaptors.

### Applications

Pneumatic and hydraulic control systems, fuel tubing, air and gas tubing. Also ideal for handling weed killing solutions, refrigerants, fresh and sea water, fumigants, paints and lacquers and many other products. Wall: Available in black and natural (translucent).

Semi-Rigid available in Black only

	Nominal O.D. (mm)	Wall Thickness (mm)	Working Pres. @ 20°C		Weight Kg/m	Coil Lengths in Metres
			Mpa	P.S.I.		
Flexible Metric	4mm	0.65mm	2.0	290	7.6	100
	5mm	0.85mm	2.0	290	11.8	100
	6mm	1mm	2.0	290	16.6	100
	8mm	1.4mm	2.0	290	30.9	100
	10mm	1.7mm	2.0	290	47.2	100
	12mm	2mm	2.0	290	66.8	100
Flexible Imperial	1/8"	0.019"	1.7	250	4.4	100
	3/16"	0.031"	1.7	250	10.0	100
	1/4"	0.040"	1.7	250	17.7	100
	5/16"	0.049"	1.7	250	26.9	100
	3/8"	0.058"	1.7	250	39.7	100
	1/2"	0.076"	1.7	250	68.6	100
	5/8"	0.065"	0.9	125	80.4	100
	3/4"	0.080"	0.9	125	117.1	100
	Semi Rigid Imperial	3/16"	0.039"	4.3	625	12.5
1/4"		0.050"	4.3	625	21.6	100
5/16"		0.062"	4.3	625	33.8	100
3/8"		0.074"	4.3	625	48.5	100
Self Store	1/2"	0.097"	4.3	625	87.1	100
	6mm	0.8mm	1.2	174	30	
	10mm	1.1mm	1.2	174	30	
	12.5mm	1.6mm	1.2	174	30	

# Barflex PVC Suction



## Grey Heavy Duty ~ General Purpose



A heavy duty suction/discharge hose. It is strong and durable with a rigid PVC spiral. Mirror smooth bore for increased flow and pumping efficiency.

### Properties

Colour	Grey
Temperature Range	-5°C to +60°C
Chemical Resistance	Good
Flexibility	Good
Weathering Properties	Good
Abrasion Resistance	Excellent

### Applications

Conveyance of water, slurries, sludge, waste matter, some chemicals, granules, sand & gravel. Widely used in the general manufacturing and building industries.

Nominal I.D. (mm)	O.D. (mm)	Working Pres. @ 20°C		Vacuum Rating KPa/20°C	Weight Kg/m	Min Bend		Coil Lengths in Metres
		Mpa	P.S.I.			Radius (mm)		
25	31.4	1.0	145	-90	0.39	120	20, 40	
32	38.6	0.9	130	-90	0.53	150	20, 40	
38	45.6	0.8	115	-90	0.69	200	20, 40	
44	52.6	0.8	115	-90	0.84	240	20	
50	59.6	0.7	100	-90	1.07	270	20, 40	
63	73.3	0.6	85	-90	1.51	330	20, 40	
76	88.0	0.6	85	-90	2.26	440	20, 40	
102	116.0	0.5	75	-90	3.17	620	20	
127	143.0	0.5	75	-90	4.33	860	20	
150	170.0	0.3	45	-90	6.73	1,100	20	

## Super E Heavy Duty ~ Petrol & Oil



An extremely flexible, thick walled suction/delivery hose with outstanding resistance to hydrocarbon based chemicals, including diesel fuel, petrol, fuel oil greases and lubricants. Smooth bore ensures maximum pumping efficiency.

### Properties

Colour	Dark Blue
Temperature Range	-5°C to +60°C
Chemical Resistance	Excellent
Flexibility	Excellent
Weathering Properties	Good
Abrasion Resistance	Excellent

### Applications

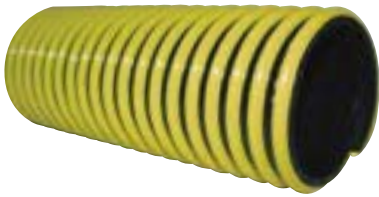
Collection of waste on environmental waste trucks, pumping the contents of grease pits, sewage collection, pumping of fuels, lubricants and most chemicals.

Nominal I.D. (mm)	O.D. (mm)	Working Pres. @ 20°C		Vacuum Rating KPa/20°C	Weight Kg/m	Min Bend		Coil Lengths in Metres
		Mpa	P.S.I.			Radius (mm)		
25	34.0	0.7	100	-90	0.55	80	20, 40	
32	41.0	0.7	100	-90	0.70	120	20, 40	
38	48.0	0.6	85	-90	0.87	180	20, 40	
50	62.0	0.5	75	-90	1.33	220	20, 40	
63	76.0	0.5	75	-90	1.81	270	20, 40	
76	90.0	0.5	75	-90	2.44	350	20, 40	
102	117.0	0.4	60	-90	3.41	550	20	
150	170.0	0.35	52	-90	6.73	980	Made to Order	



# Barflex PVC Suction Hoses

## Tigertail Heavy Duty ~ Petrol & Oil



An extremely flexible suction/discharge hose with a hard wearing exposed rigid PVC spiral. Excellent chemical resistance, making the hose suitable for diesel fuels, petrol, oils, sewage and chemicals.

### Properties

Colour	Black with Exposed Yellow Spiral
Temperature Range	-5°C to +60°C
Chemical Resistance	Excellent
Flexibility	Excellent
Weathering Properties	Good
Abrasion Resistance	Excellent

### Applications

Collection of waste on environmental waste trucks, pumping the contents of grease pits, sewage collection, pumping of fuels, lubricants and most chemicals.

Nominal		Working		Vacuum Rating	Min Bend		
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.		Weight Kg/m	Radius (mm)	Coil Lengths in Metres
50	61.0	0.3	45	-80	0.88	220	20
63	76.0	0.3	45	-80	1.27	270	20
76	90.0	0.3	45	-80	1.62	350	20
102	118.0	0.3	45	-80	2.43	450	20
127	143.0	0.3	45	-80	3.99	475	20
150	167.0	0.3	45	-80	5.10	500	20
203	222.0	0.3	45	-80	7.55	650	Made to Order

## Black Boss Medium Duty ~ Petrol & Oil



A medium duty chemical suction/discharge hose. Extremely flexible and lighter weight product for the less demanding applications.

### Properties

Colour	Black
Temperature Range	-5°C to +60°C
Chemical Resistance	Excellent
Flexibility	Excellent
Weathering Properties	Good
Abrasion Resistance	Good

### Applications

Collection of waste on environmental waste trucks, pumping the contents of grease pits, sewage collection, pumping of fuels, lubricants and most chemicals.

Nominal		Working		Vacuum Rating	Min Bend		
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.		Weight Kg/m	Radius (mm)	Coil Lengths in Metres
19	24.9	0.65	95	-90	0.26	40	20, 40
25	32.0	0.65	95	-90	0.41	65	20, 40
32	39.0	0.65	95	-90	0.54	100	20, 40
38	46.2	0.55	80	-90	0.70	150	20, 40
50	60.0	0.45	65	-90	1.07	190	20, 40
63	74.1	0.45	65	-90	1.50	230	20, 40
76	89.0	0.45	65	-90	2.25	330	20, 40
102	115.5	0.45	65	-90		520	20

# Barflex PVC Suction Hoses



## Blueline Oil & Tanker



Medium duty flexible PVC suction/discharge hose. Good resistance to chemicals and oil. Highly flexible at low temperatures and a mirror smooth bore for pumping efficiency.

### Properties

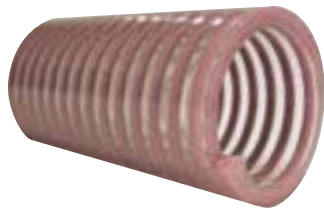
Colour	Blue
Temperature Range	-5°C to +60°C
Chemical Resistance	Excellent
Flexibility	Excellent
Weathering Properties	Good
Abrasion Resistance	Good

### Applications

Collection of waste on environmental waste trucks, pumping the contents of grease pits, sewage collection, pumping of fuels, lubricants and most chemicals.

Nominal I.D. O.D. (mm) (mm)	Working Pres. @ 20°C Mpa P.S.I.		Vacuum Rating KPa/20°C	Min Bend		Coil Lengths in Metres
	Weight Kg/m	Radius (mm)				
25 32.0	1.0 145	-90	0.41	75	20	
32 40.6	0.9 130	-90	0.51	110	20	
38 45.6	0.9 130	-90	0.70	165	20	
50 60.2	0.7 102	-90	1.05	210	20	
63 73.5	0.6 87	-90	1.42	250	20	
75 87.8	0.6 87	-90	2.03	360	20	
100 116.6	0.5 73	-90	3.10	560	20	

## Wine ~ Claret Food and Beverage



Heavy duty flexible food quality PVC suction/discharge hose reinforced with a rigid spiral. Has a smooth bore to minimise flow losses. Conforms to AS2070.

### Properties

Colour	Clear with Claret Spiral
Temperature Range	-5°C to +60°C
Chemical Resistance	Excellent
Flexibility	Good
Abrasion Resistance	Excellent
UV Resistant	Excellent

### Applications

Suitable for the wine, canning and food packaging industries. It can be used for the suction of wine & spirits up to 28 1/4 proof. The smooth bore enables easy cleaning and reduces bacteria buildup.

Nominal I.D. O.D. (mm) (mm)	Working Pres. @ 20°C Mpa P.S.I.		Vacuum Rating KPa/20°C	Min Bend		Coil Lengths in Metres
	Weight Kg/m	Radius (mm)				
25 34.0	0.7 100	-90	0.60	160	20, 40	
32 41.0	0.7 100	-90	0.71	190	20, 40	
38 48.0	0.6 85	-90	0.82	230	20, 40	
50 62.0	0.5 75	-90	1.20	290	20, 40	
63 76.0	0.5 75	-90	1.73	360	20, 40	
76 90.0	0.5 75	-90	2.29	450	20, 40	
102 117.0	0.4 60	-90	3.33	640	20	
127 143.0	0.4 60	-90	4.58	900	Made to Order	
150 170.0	0.35 50	-90	6.75	1,200	Made to Order	



# Barflex PVC Suction Hoses

## Standard Food Contact / Milk Tanker



A general purpose suction/discharge hose for the transfer of food products, including beer, wine, drinking water and milk. Conforms to AS2070. Resistant to chemicals used in cleaning

### Properties

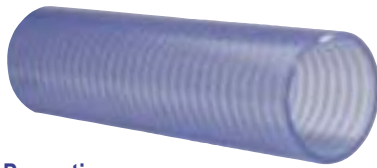
Colour	Clear with Bone rigid PVC Spiral
Temperature Range	-5°C to +60°C
Chemical Resistance	Good
Flexibility	Excellent
Abrasion Resistance	Good

### Applications

Suitable for the tanker delivery of milk, other dairy products, drinking water, wine and other food products. The smooth bore enables easy cleaning and reduces bacteria buildup.

Nominal I.D. (mm)	O.D. (mm)	Working Pres. @ 20°C		Vacuum Rating KPa/20°C	Min Bend		
		Mpa	P.S.I.		Weight Kg/m	Radius (mm)	Coil Lengths in Metres
25	32.0	0.7	100	-90	0.41	120	20, 40
32	39.0	0.7	100	-90	0.52	150	20, 40
38	46.2	0.6	85	-90	0.68	200	20, 40
50	60.0	0.5	75	-90	1.02	270	20, 40
63	74.3	0.5	75	-90	1.40	330	20, 40
76	89.0	0.4	60	-90	2.01	440	20, 40
102	116.0	0.4	60	-90	3.06	620	20

## C View S



An exceptionally flexible, clear suction/discharge hose suitable for food and beverages. The clear rigid helix makes the hose completely transparent. It is UV light stabilised and conforms to AS2070 1999.

### Properties

Colour	Clear with Clear rigid PVC Spiral
Temperature Range	-5°C to +60°C
Chemical Resistance	Excellent
Flexibility	Excellent
Abrasion Resistance	Good

### Applications

Suction of any fluid that requires a food grade hose including wineries, milk collection or processing, canneries, and food processing plants. It can be used for the suction or delivery of wine & spirits to 28 1/4 proof.

Nominal I.D. (mm)	O.D. (mm)	Working Pres. @ 20°C		Vacuum Rating KPa/20°C	Min Bend		
		Mpa	P.S.I.		Weight Kg/m	Radius (mm)	Coil Lengths in Metres
25	32.0	1.0	145	-90	0.43	120	20
32	40.6	0.9	130	-90	0.65	150	20
38	45.6	0.9	130	-90	0.70	200	20
50	60.2	0.7	102	-90	1.05	270	20
63	73.5	0.6	87	-90	1.44	330	20
75	87.8	0.6	87	-90	1.98	440	20
100	116.6	0.5	73	-90	3.14	620	20
150	170.0	0.4	58	-90	5.86	1,100	20

## C View SP



Specifically designed to outperform all other hoses in the beverage industry. It is both a suction and pressure hose in one. It is UV light stabilised, conforms to AS2070 for use with food products and uses a plastic helix that will not rust or cut the hands of operators.

### Properties

Colour	Clear with Clear rigid PVC Spiral
Temperature Range	-5°C to +60°C
Chemical Resistance	Excellent
Flexibility	Excellent
Abrasion Resistance	Excellent

### Applications

Pressure or suction of any liquid or semi liquid that requires a food grade hose. Included are wineries, milk processing plants or tankers. Can be used with wine and spirits to 28 1/4 proof.

Nominal I.D. (mm)	O.D. (mm)	Working Pres. @ 20°C		Vacuum Rating KPa/20°C	Min Bend		
		Mpa	P.S.I.		Weight Kg/m	Radius (mm)	Coil Lengths in Metres
25	35.5	1.2	175	-90	0.68	130	30
38	48.5	1.2	175	-90	1.01	220	30
50	64.5	0.9	131	-90	1.67	300	30

# Barflex PVC Suction Hoses



## Greenline Abrasive Resistant



A heavy duty suction/discharge hose especially formulated to be hardwearing and resistant to abrasion. A flexible thick PVC/Nitrile/ Urethane blend with an external rigid PVC spiral results in a hose with exceptional wear resistance, both inside and out, and flexibility for ease of use.

Properties		Nominal		Working		Vacuum Rating KPa/20°C	Weight Kg/m	Min Bend	
		I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.			Radius (mm)	Coil Lengths in Metres
Colour	Black with Green rigid Spiral								
Temperature Range	-5°C to +60°C								
Chemical Resistance	Excellent	32	41.5	0.3	40	-90	0.55	250	20
Flexibility	Excellent	38	48.4	0.3	40	-90	0.65	28	20
Weathering Properties	Excellent	45	55.5	0.3	40	-80	0.75	310	20
Abrasion Resistance	Excellent	50	64.5	0.3	40	-80	0.88	350	20
<b>Applications</b>		63	77.0	0.3	40	-70	1.34	370	20
Pumping slurries, air seeder machines, industrial/ commercial vacuum cleaning.		75	95.0	0.3	40	-70	1.60	400	20
		100	118.0	0.3	40	-70	2.40	500	20
		127	150.0	0.3	40	-70	4.75	550	20
		150	174.0	0.3	40	-60	5.96	600	20
		203	224.0	0.3	40	-60	7.55	650	10

## Clear/Black Air Seeder



A medium duty flexible PVC suction/discharge hose reinforced with a black spiral. It has a mirror smooth bore to minimise friction losses.

Properties		Nominal		Working		Vacuum Rating KPa/20°C	Weight Kg/m	Min Bend	
		I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.			Radius (mm)	Coil Lengths in Metres
Colour	Clear with Black rigid PVC Spiral								
Temperature Range	-5°C to +60°C								
Chemical Resistance	Good	25	31.4	0.8	116	-90	0.34	120	20, 30
Flexibility	Excellent	32	38.4	0.7	102	-90	0.47	150	20, 30
Abrasion Resistance	Excellent	38	45.4	0.6	87	-90	0.62	200	20, 30
<b>Applications</b>		44	52.0	0.6	79	-90	0.70	240	20, 30
Suitable for primary, secondary and tertiary lines on air seeder machines.		50	59.2	0.5	72	-90	0.93	300	20, 30
		63	73.3	0.5	72	-90	1.43	400	20, 30
		76	87.4	0.4	58	-90	2.02	450	20, 30

## Barflex Spa Hose



A highly flexible suction/discharge hose designed specifically for Spa operations.

Properties		Nominal		Working		Vacuum Rating KPa/20°C	Weight Kg/m	Min Bend	
		I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.			Radius (mm)	Coil Lengths in Metres
Colour	Fawn								
Chemical Resistance	Excellent								
Flexibility	Good	25	33.9	0.7	100	-90	0.58	120	20
<b>Applications</b>		41	48.5	0.6	85	-90	0.75	220	20
Flexible plumbing line used in spa's.		50	60.6	0.5	75	-90	1.25	270	20



# Barflex PVC Suction Hoses

## Ridgeback ~ Light Duty



A light weight, multi purpose suction/discharge hose. The corrugated outer surface allows for a tight bend radius.

### Properties

Colour	Clear with Clear rigid PVC Spiral
Temperature Range	-5°C to +60°C
Chemical Resistance	Good
Flexibility	Excellent
Abrasion Resistance	Good

### Applications

Transporting light weight slurries or particulates including grains, seeds and plastic granules. Not approved for use with foodstuffs.

Nominal		Working		Vacuum Rating KPa/20°C	Weight Kg/m	Min Bend		Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.			Radius (mm)		
25	32.4	0.4	60	-90	0.32	40	20, 40	
32	40.0	0.4	60	-90	0.37	50	20, 40	
38	46.5	0.4	60	-90	0.47	60	20, 40	
50	60.8	0.4	60	-90	0.75	100	20, 40	
63	73.5	0.3	45	-90	0.90	150	20, 40	
76	89.0	0.3	45	-90	1.15	300	20, 40	

## LPG Vent ~ Light Duty



A highly flexible hose manufactured to AS1425 Section 2.2 covering LPG fuel systems for vehicle engines

### Properties

Colour	Black
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### Applications

Suitable for use in converting cars, trucks and forklifts from petrol to gas.

Nominal		Working		Vacuum Rating KPa/20°C	Weight Kg/m	Min Bend		Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.			Radius (mm)		
38	46.0	0.3	36	-90	0.45	60	20, 40	
50	60.8	0.3	36	-90	0.73	100	20, 40	

## Odor Free Sanitation Hose



A suction/discharge hose especially formulated for use with sanitation systems in boats, caravans and recreational vehicles. It will minimise odours in the confined spaces and is designed to withstand the chemicals used in the systems.

### Properties

Colour	Beige
Chemical Resistance	Excellent
Flexibility	Good

### Applications

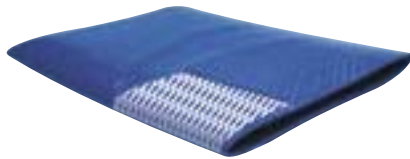
Suitable for use in all pressure or vacuum toilet systems.

Nominal		Working		Vacuum Rating KPa/20°C	Weight Kg/m	Min Bend		Coil Lengths in Metres
I.D. (mm)	O.D. (mm)	Pres. @ 20°C Mpa	P.S.I.			Radius (mm)		
19	24.9	0.65	95	-90	0.26	60	20	
25	32.0	0.70	102	-90	0.42	120	20	
38	46.2	0.90	130	-90	0.71	200	20	

# Sunny Layflat Hose



## Light Duty Sunny Blue Layflat Hose



Made from PVC compound, reinforced with high strength yarns and is a one piece construction.

### Application

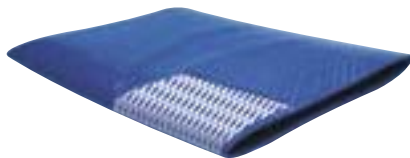
Suitable for irrigation or drainage, washdown, water supply for construction sites or general dewatering.

### Colour

Blue

Nominal I.D. O.D. (mm) (mm)	Working Pres. @ 20°C		Weight Kg/m	Coil Lengths in Metres
	Mpa	P.S.I.		
40	0.50	73	0.21	100
50	0.45	65	0.29	100
65	0.40	58	0.40	100
75	0.35	58	0.57	100
100	0.30	58	0.75	100
125	0.30	44	1.00	100
150	0.30	44	1.25	100
200	0.30	44	1.93	100
250	0.25	36	2.70	100
300	0.20	30	2.90	100
350	0.20	30		100
400	0.20	30		100

## Medium Duty Sunny Blue Layflat Hose



An abrasion resistant medium duty hose made from PVC compound and reinforced with high tensile strength yarn.

### Application

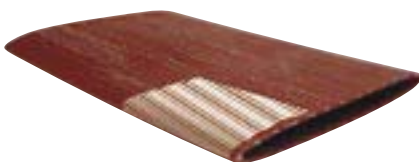
Suitable for low volume irrigation, wash down, as well as a variety of watering applications in commercial gardening and construction sites.

### Colour

Blue

Nominal I.D. O.D. (mm) (mm)	Working Pres. @ 20°C		Weight Kg/m	Coil Lengths in Metres
	Mpa	P.S.I.		
19	0.7	100	0.11	100
25	0.7	100	0.17	100
32	0.7	100	0.20	100

## Heavy Duty Sunny Red Layflat Hose



A tough abrasion resistant heavy duty hose made from PVC compound and reinforced with high tensile strength yarn.

### Application

De-watering pits, building sites, dams, mines and quarries. Also suitable for pumping more abrasive slurries.

### Colour

Red

Nominal I.D. O.D. (mm) (mm)	Working Pres. @ 20°C		Weight Kg/m	Coil Lengths in Metres
	Mpa	P.S.I.		
40	1.0	152	0.30	100
50	1.0	152	0.42	100
65	1.0	152	0.55	100
75	0.9	130	0.66	100
100	0.9	130	1.02	100
150	0.7	102	1.65	100
200	0.5	75	2.20	100



# Barflo Hose

## Barflo Industrial



A lightweight, flexible air seeder hose also suitable for many other less demanding applications. UV light stabilised.

### Applications

Secondary and tertiary lines on air seeder machines. Also suitable for water conveyence, small ventilation on business machines and dust collection.

### Colour

Black

	Nominal		Min Bend Radius (mm)	Weight Kg/m	Coil Lengths in Metres
	I.D. (mm)	O.D. (mm)			
	12.5	19.0	50	0.10	20
	16	21.5	65	0.13	20
	19	26.0	65	0.20	20
	25	32.0	70	0.25	20
	28	35.5	80	0.28	20
	30.5	39.5	85	0.31	20
	31.5	40.5	85	0.37	20
	32	41.0	90	0.38	20
	33.5	44.0	90	0.40	20
	35	45.0	90	0.42	20
	38	47.0	100	0.45	20
	44	53.0	110	0.48	20
	50	63.5	125	0.85	20
	63	74.5	200	1.00	20
	76	88.0	250	1.10	20
	102	114.0	400	2.00	20

## Airseeder General Purpose



A medium weight, flexible general purpose hose with a smoother bore to minimise losses. UV light stabilised.

### Applications

Secondary and tertiary lines on air seeder machines. Also suitable for water conveyence, small ventilation on business machines and dust collection.

### Colour

Black

HW ~ Heavy Wall

	Nominal		Min Bend Radius (mm)	Weight Kg/m	Coil Lengths in Metres
	I.D. (mm)	O.D. (mm)			
	25	32.7	70	0.27	20
	28	38.6	80	0.29	20
	31.5	42.5	85	0.39	20
	32	43.2	90	0.40	20
	33.3	44.3	90	0.41	20
	35	46.2	90	0.41	20
	38	49.2	100	0.47	20
	44	55.2	110	0.49	20
	44HW	61.5	120	0.96	20
	50	62.6	125	0.67	20
	63	76.0	200	0.97	20

## Barflo Heavy Duty



Medium to heavy duty vacuum and delivery hose with good flexibility. UV light stabilised

### Applications

Collection of dust, sawdust, fumes. Transport of water or small particulates.

### Colour

Black

HW ~ Heavy Wall

	Nominal		Min Bend	Weight Kg/m	Coil Lengths in Metres
	I.D. (mm)	O.D. (mm)	Radius (mm)		
	31.5	42.0	125	0.42	20
	38	48.5	130	0.55	20
	44	58.0	135	0.75	20
44HW	63.0		200	1.00	20
	50	67.5	175	1.00	20
	63	79.5	200	1.10	20
	76	92.0	300	1.40	20
	102	121.5	400	2.50	20
	127	149.0	450	3.70	Made to order
	152	174.0	550	4.20	Made to order
	203	226.0	1,000	5.20	Made to order

## Provac ~ Vacuum Hose



A heavy duty vacuum hose, resistant to chemicals and abrasion. Will not mark walls or furniture.

### Applications

Commercial carpet steam cleaning machines.

### Colour

Grey

	Nominal		Min Bend	Weight Kg/m	Coil Lengths in Metres
	I.D. (mm)	O.D. (mm)	Radius (mm)		
	38	47.5	70	0.40	10, 20
	50	68.5	110	0.95	10, 20

## Domestic Vac ~ Vacuum Hose



An extremely flexible vacuum cleaner hose which will not mark walls or furniture. UV light resistant.

### Applications

Suitable for portable vacuum cleaners and ducted systems.

### Colour

Beige

	Nominal		Min Bend	Weight Kg/m	Coil Lengths in Metres
	I.D. (mm)	O.D. (mm)	Radius (mm)		
	32	40.0	70	0.28	10, 20



# Pool Hose

## Autovac



1 Cuff Inc.

Colour  
Blue

A flexible pool hose designed for automatic pool cleaners. Comes boxed with one fitted cuff

Nominal I.D. (mm)	Weight Kg/m	Coil Lengths in Metres
38	0.35	9, 12, 15

## Aqua Autovac



1 Cuff Inc.

Colour  
Aqua

An extremely flexible pool cleaner hose engineered to suit most automatic pool cleaners. Comes boxed with one fitted cuff.

Nominal I.D. (mm)	Weight Kg/m	Coil Lengths in Metres
38	0.35	9, 11, 12, 13, 15

## Barvac



2 Cuffs Inc.

Colour  
White

Extra heavy duty pool cleaner designed for professionals. Comes boxed with two cuffs fitted.

Nominal I.D. (mm)	Weight Kg/m	Coil Lengths in Metres
38	0.35	8, 9, 11, 13, 15, 20
50	0.74	10,20

## Poolside



2 Cuffs Inc.

Colour  
Blue

A premium quality pool owners hose. Easy to use, long lasting. Comes boxed with two cuffs fitted.

Nominal I.D. (mm)	Weight Kg/m	Coil Lengths in Metres
32	0.23	4.5, 6, 8, 9, 11, 20
38	0.34	8, 9, 11, 13, 15, 20

## Poolflex



2 Cuffs Inc.

Colour  
White

A low cost pool hose suitable for hand vacuuming your pool. Comes boxed with two fitted cuffs.

Nominal I.D. (mm)	Weight Kg/m	Coil Lengths in Metres
32	0.22	7, 9, 11, 13
38	0.33	8, 9, 11, 13, 15

# Chemical Resistance Chart



When selecting hoses and tubes, many considerations need to be made, including pressure requirements, flow rates, temperature, abrasive resistance, and many others. The information here concerns chemical resistance only and does not imply suitability in other respects. Compliance with standards, permeation, UV resistance and other properties need to be considered before a product can be regarded as suitable for the particular application. If in doubt, please contact your distributor or Barfell for assistance.

**PVC Pressure Hoses, Suction Hoses and Tubes** ~ All flexible PVC contains plasticisers to impart softness to the PVC. Some solvents extract the plasticiser rather quickly and the hose or tube becomes hardened. Examples are alcohols and hydrocarbon solvents. Oils extract the plasticiser, but with some oils and petrols the hose retains flexibility and useful performance so long as it is not allowed to dry out. The oil in effect takes over the role of the plasticiser and once dried out, the hose loses flexibility.

Several different plasticisers can be used, some giving greatly improved performance with solvents and oils. The chart assumes that a commonly used, fairly resistant plasticiser called Dioctyl Phthalate (DOP) would be present.

The chemical resistance to be expected from plasticised PVC when DOP is used as the plasticiser is summarised in the following paragraphs.

- Acids and Alkalis: Dilute acids and alkalis have little effect at room temperature, but at elevated temperatures some hydrolysis and extraction of plasticiser may occur. Concentrated acids and alkalis hydrolyse plasticisers slowly in the cold and more rapidly when heated.
- Organic Liquids: The main effect of most organic liquids on plasticised PVC is to extract the plasticiser, resulting in some hardening, particularly when the PVC is removed from contact with the liquid. The compound may become hard and less tough.

Most organic solvents will extract plasticiser and give rise to these effects, but with aromatic and chlorinated hydrocarbons, aliphatic and cyclic ethers, this plasticiser extraction is accompanied by a softening of the PVC and the overall effect is difficult to predict.

The undesirable effects mentioned above with a PVC compound containing a monomeric ester type plasticiser such as DOP, can be reduced or prevented by the use of a polymeric type of plasticiser which affords a higher resistance to extraction. Such plasticisers include Polypropylene Adipate (PPA) and polypropylene Sebacate (PPS), the former being of value in contact with oils and fuels and the latter showing a high degree of resistance to soap and detergent solutions.

**Nylon Tubing** ~ As the chart indicates, Nylon is resistant to many solvents, oils and fats and is generally the material of choice for paints, thinners and oils. However, as with all chemical properties, increased temperature increases the speed of any attack.

**EVA (Beva) Tubing** ~ Made from EVA is widely used for food products as it is approved for use with most foodstuffs and will not impart taste or odour.

**Use of the charts** ~ It may be safely assumed that chemical resistance decreases with both increasing temperature and with increasing concentration of reagent, and that the reverse is also true. No valid assumptions can be made if the temperature and concentration move in compensating directions. The following Chemical resistance Chart is not intended to be complete. Missing chemicals from this chart does not mean unsuitability. Please contact Barfell Industries for further advice.

It should be appreciated that the information given herein is, to the best of our knowledge, true and accurate. However, since conditions under which our products may be used are beyond our control, recommendations are made without warranty or guarantee.

	NYLON			FLEXIBLE PVC			EVA			NYLON			FLEXIBLE PVC			EVA			
	20°C	80°C	60°C	20°C	55°C	NOTES	20°C	60°C	NOTES	20°C	80°C	60°C	20°C	55°C	NOTES	20°C	60°C	NOTES	
<b>A</b>																			
Acetaldehyde	G	L		P	P		L	P	40-100%	Barium Carbonate	G	G	G	G	G		G	G	
Acetic Acid	L	P	P	G	L	10%	G	G	10%	Barium Chloride	G	G	G	G	G		G	G	
				G	P	50%	G	L	60%	Barium Hydroxide				G			G	G	
				L	P	85%	G	L	Conc.	Barium Sulphate				G	G				
Acetic Acid (Glacial)	P	P		P	P		G	L		Beer	G			G	L		G	G	
Acetic Anhydride	L	P	P	P	P		L	L		Benzaldehyde	G	P		P	P		L	P	
Acetone	G	L	P	U	P	P	P	P		Benzene	G	L	P	P	P		P	P	
Acetylene Gas	G	G	G							Benzyl Alcohol	L	P	P	P	P		L	P	
Alcohol – Butyl				G	L					Benzoic Acid				P	P				
Alcohol – Cetyl				G	G					Bismuth Carbonate				G	G				
Alcohol – Ethyl				G	L					Bleach				G	G	Dil	G	G	
Alcohol – Lauryl				G	G									G	L	Conc			
Alcohol – Methyl				G	G					Borax (Sodium Tetraborate)				G	G		G	G	
Aliphatic Hydrocarbons				G	L					Boric Acid				G	G		G	G	
Alum				G	G		G	G		Brine				G	G		G	G	
Aluminium Acetate							G	G		Bromine, Dry Gas	P			P	P		P	P	
Aluminium Chloride				G	G		G	G		Bromine, Liquid Anhydrous	P			P	P		P	P	
Aluminium Fluoride				G	L					Butane Gas	G	G		G	L		G	G	
Aluminium Nitrate				G	G					Butyl Acetate	G	G	L	P	P				
Aluminium Oxalate				G	G					Butyl Alcohol (n-Butanol)	G	P		G	L		G	G	
Aluminium Potassium Sulphate				G	G					Butyric Acid				G	L	20%	L	P	
Aluminium Sulphate	G	G	G	G	G		G	G						P	P	Conc			
Ammonia, Aqueous	G	G	G	G	G	10%	G	G		<b>C</b>									
				L	L	28%				Calcium Arsenate	G	G		G	G				
Ammonia, Gas	G			G	L	Dry	G	G		Calcium Carbonate				G	G				
				P	P	Wet				Calcium Chloride	G	G	G	G	G		G	G	
Ammonium Chloride				G	G		G	G		Calcium Hydroxide (lime Soln.)				G	G		G	G	
Ammonium Hydroxide	G	G	G	G	L		G	G		Calcium Hypochlorite				G	G	Dil	G	G	
Ammonium Sulphate	G	L		G	G		G	G						G	L	Conc			
Amyl Acetate	G	G	L	P	P		P	P		Calcium Nitrate				G	G				
Amyl Alcohol				G	G		G	G		Carbinol Acetate				P	P				
Anethole	G									Carbolic Acid (Phenol)				L	P		P	P	
Aniline	L	P	P	G	G		L	P											

Key ~ Refer to Page 22



# PVC Chemical Resistance

	NYLON		FLEXIBLE PVC		EVA			NYLON		FLEXIBLE PVC		EVA		
	20°C	80°C	20°C	55°C	20°C	NOTES		20°C	80°C	20°C	55°C	20°C	NOTES	
	60°C		20°C	NOTES	60°C		60°C		60°C	NOTES	60°C			
<b>C</b>														
Carbon Dioxide			G	G	G	G								
Carbon Disulphide	G	P	P	P	P	P								
Carbonic Acid			G	G										
Carbon Monoxide			G	G										
Carbon Tetrachloride			P	P	P	P								
Casein			G	G										
Castor Oil			G	L	L	P								
Caustic Soda			G	G										
Chlorine Dry Gas	P	P	P	P	P	P								
Chlorine Water			P	P	G	G	2%							
					G	P	Sat'd							
Chloroform			P	P	P	P								
Chromic Acid Plating soln.	P		P		L	L								
Cider	G		G		G	G								
Citric Acid	G	L	G	G	G	G								
Coal Gas	G		P				Permeates							
Copper Cyanide			G	G										
Copper Nitrate			G	G										
Copper Sulphate	G	G	G	G	G	G								
Creosote			P	P	P	P								
Cresol(s)			P	P	P	P								
Crude Oil	G	G	L	P	P	P								
Cyanide			G	G	G	G								
Cyclohexane	G	L			P	P								
Cyclohexanol	G	P	P	P	L	P								
Cyclohexanone														
<b>D</b>														
D D T Preparation	G													
Decalin	G	G	L											
Detergents Alkaline			G		G	G	To 25%							
Detergents, synthetic			G	G	G	G								
Dextrin (Starch Gum)			G	G	G	G								
Dextrose			G	G	G	G								
Di Acetone Alcohol	G	L	P											
Di Ammonium Phosphate	G	L			L	P								
Di Butyl Phalate			P	P										
Di Chloro Ethane			P	P										
Di Chloro Methane			P	P										
Di Ethanolamine	G	L	L		L	P								
Di Ethyl Ether	G				P	P								
Di Isocyanate			P	P										
Di Methyl Formamide			P	P										
Di Methyl Sulphoxide			P	P										
Di Octyl Phosphate	G	L	L											
Di Octyl Phthalate	G	G			L	P								
Di Sodium Phosphate			G	G	G	G								
Diesel Fuels			G	L	L	P								
Developers Photographic			G	G										
Dextrose			G	G										
Dichlorethylene			P	P										
<b>E</b>														
Ethane			G	G										
Ethanol	L	P	G	L	G	G	35-100%							
			P	P			96%							
Ethyl Acetate	G	G	P	P	L	P								
Ethylene Chlorohydrin	P		P	P										
Ethylene Chloride			P	P	P	P								
Ethylene Di Chloride			P	P	P	P								
Ethyl Ether			P	P	P	P								
Ethylene Glycol			G	L	G	G	30%							
			L	L			100%							
Ethylene Oxide	G	L	P		P	P								
<b>F</b>														
Fatty Acids Esters	G	G	G											
Ferric Chloride			G	G	L	L								
Fixing Solution – Photographic			G	G										
Flavours & Essences					G	G								
Fluorine	P		G	P	L	P								
Formaldehyde 40%	G	P	L	L	G	L	37%							
<b>F</b>														
Formic Acid			G	G	G	G	10%						3-100%	
			L	P			50%							
			P	P			100%							
French Polish			G	P									G	
Fruit Juices			G										G	
Fuel Oil	G		G										G	
Furfuryl Alcohol	G	L	P		G	G							L	
													P	
G													P	
Gases, Coal or Town					G	G								
Gases, Natural					G	G							L	
Gas Oil	G	L			G	G							P	
Gas, Liquefied Petroleum			G	G										
Glucose	G	G	G		G	G							G	
Glycerine	G	L	P		G	G							G	
Glycol	G	L	P		G	L	30%						G	
			L	L			100%						G	
Grape Sugar			G	G									G	
Grease, General	G	G	G		G	G							L	
Grease, Mineral	G	G	G		G	L							L	
Ground Nut Oil			G	L									P	
<b>H</b>														
Heptane			G	L									P	
Hexadecanol			G	G									P	
Hexane			G	L										
Hydrazine			P											
Hydrobromic Acid			G	G										
Hydrochloric Acid	G	P	P		G	G	10%						G	
					G	G	25%						L	
			G	L			37% Conc.						L	
Hydrofluoric Acid			G	L	G	G	40%						G	
			P	P			60%						G	
Hydro Fluosilicic Acid			P	P	G	G	20%						G	
Hydrogen	G	G	G		G	G							G	
Hydrogen Peroxide (100Vols)	G	L			G	L	10-30%						G	
Hydrogen Sulphide Gas													G	
<b>I</b>														
Iodine, Tincture of			L	P										
Iodine, Solution in Pot. Iodide			P	P									L	
Industrial Methylated Spirits			G	G									P	
Iso Cyanates			P	P									P	
Iso Propyl Alcohol			G	P									G	
<b>J</b>														
Jet Fuel JP-4			G	G									L	
													P	
<b>K</b>														
Kerosene			G	G									L	
													P	
<b>L</b>														
Lactic Acid	G	G	L		G	L	10%						G	
					P	P	100%						G	
Lanoline			G	G										
Lead Acetate			G	G									G	
Lead Nitrate			G	G									G	
Lime Solution			G	G									G	
Linseed Cake	G	G	G										G	
Linseed Oil			L	L									L	
<b>M</b>														
Magnesium Chloride	G	G	G		G	G							G	
Magnesium Hydroxide			G	G									G	
Magnesium Nitrate			G	G									G	
Melamine Acid			P	P										
Mercuric Cyanide			G	G										
Mercurous Nitrate			G	G										
Mercury	G	G	G		G	G							G	
Metallic Soaps			G	G									G	
Methane	G	G	G		G	G								
Methanol			G	G										



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