

**NZ Safety**Blackwoods





# 29. HOSE & FITTINGS

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<b>BAND &amp; BUCKLES - STAINLESS STEEL</b>	<b>797</b>
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## HOSE ASSEMBLY & TESTING SERVICE

**NZ Safety Blackwoods**

### Hose Assembly

NZ Safety Blackwoods can assemble a variety of end connections onto different types of hoses such as stainless steel corrugated, rubber, PVC and composite hoses. All our assembled hoses can be tested and certified, either in-house or on location.

### Hose Testing/Inspections

NZ Safety Blackwoods is able to test hoses within the petrochemical, food processing, marine, transportation, contracting and manufacturing industries. The hoses we test can cover the full range of industrial applications.



### Our Services Include:

- Testing carried out by NAHAD accredited staff
- Testing and inspections tailored to customers' needs and requirements
- On-site inspect, test, repair and replace hose assemblies
- Off-site inspect, test, repair and replace and hose assemblies

### Online Hose Register & Tracking System "Info-Chip"

- Company Info-Chip login is set up
- Data from site survey is upload to Info-Chip
- Customers are given one-on-one training on Info-Chip
- Hoses can also be micro-chipped for better tracking



KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## RUBBER HOSE – AIR & WATER

### V214 Water Suction & Discharge Hose



**Application:** General purpose suction and discharge hose for use in medium to heavy duty operations.

**Tube:** NR/SBR Blended

**Reinforcement:** Synthetic fabric plies (2) with wire helix

**Cover:** Black SBR/EPDM Blended; wrapped finish

**Temperature Range:** -20°C to +70°C



Nominal Bore mm	Outside Dia mm	WP (PSI)	Roll Quantity m	Part Number
▶ 25	36	150	30/60	04809366
▶ 32	43	150	30/60	04809463
▶ 38	49	150	30/60	04809565
▶ 50	63	150	30/60	04809764
▶ 63	77	150	30/60	04809866
▶ 75	89	150	30	04809969
▶ 100	118	150	30	04800164
▶ 125	146	150	30	06824708
▶ 152	170	150	30	04810465

### Black Frontier Air & Water Hose



**Application:** Economical air and water hose; suitable for use between -40°C up to +88°C.

**Tube and Cover:** Black Versigard® synthetic rubber

**Reinforcement:** Spiral synthetic yarn



Nominal Bore mm	Working Pressure MPa	Outside Dia. mm	Weight kg/m	Max. Lengths m	Part Number
■ 6	1.4	12.7	0.13	152.4	05244184
■ 8	1.4	14.7	0.18	152.4	05244201
■ 10	1.4	17.0	0.22	152.4	05244252
■ 13	1.4	20.5	0.30	152.4	04810766
▶ 16	1.4	24.6	0.40	152.4	05244320
■ 19	1.4	28.4	0.51	152.4	04810863
■ 25	1.4	36.8	0.80	137.2	04810964

### V204 Water Discharge Hose



**Application:** General purpose hose for use in heavy duty service for a wide range of applications.

**Tube:** NR/SBR Blended

**Reinforcement:** Synthetic fabric plies (2)

**Cover:** Black SBR/EPDM Blended; wrapped finish

**Temperature Range:** -20°C to +70°C



Nominal Bore mm	Outside Dia mm	WP (PSI)	Roll Quantity m	Part Number
▶ 19	28	150	30	04098435
▶ 25	34	150	30/60	04098452
▶ 32	42	150	30/60	04098469
▶ 38	48	150	30/60	04098486
▶ 50	61	150	30/60	04098503
▶ 63	74	150	30/60	04098520
▶ 75	89	150	30/60	04098537
● 100	114	150	30/60	04098554
▶ 152	165	150	30/60	04098588

### Sewer Jet



**Application:** Designed for sewer cleaning with a special construction for long life. Cover has extreme resistance to cuts and abrasion. The tube and cover are bonded to give a long life with no delamination. Cover is also resistant to microbiological degradation.

**Tube:** Thermoplastic Elastomer

**Length:** 182.7m coil



Nominal Bore mm	Outside Dia mm	WP (PSI)	Min Bend Radius	Part Number
● 25.4	36.83	2,500	160mm	03799949

## Rubber Hose Abbreviations and Definitions

<b>SBR</b>	Styrene-Butadiene Rubber – also known as Buna S
<b>EPDM (Versigard)</b>	Ethylene Propylene Diene M-class (polymethylene rubber)
<b>NBR (Chemigum)</b>	Nitrile Butadiene Rubber – also known as Nitrile rubber
<b>ABR</b>	Acrylate-Butadiene Rubber
<b>PVC</b>	PolyVinyl Chloride
<b>NEOPRENE</b>	Also known as Polychloroprene
<b>UHMWPE</b>	Ultra High Molecular Weight PolyEthylene – also known as High-Modulus Polyethylene (HMPE) or High-Performance Polyethylene (HPPE)
<b>CHEMIVIC</b>	Nitrile Butadiene & PVC
<b>TPR</b>	Santoprene® coated polyester fabric
<b>TPU</b>	Thermoplastic polyurethane material

# RUBBER HOSE - MULTIPURPOSE

## Neptune™ 3000 Pressure Washer Hose



**Application:** Neptune™ 3000 hose is designed for use on pressure washer/water blasting machines with working pressures up to 3,000psi. Suitable for use at temperatures between -29° C to +121° C.

**Tube:** Black Chemigum® synthetic rubber.

**Reinforcement:** 1 steel wire braid.

**Cover:** Blue Hysunite® synthetic rubber.

Also available ex our workshop as fitted ready to use assemblies with crimped hydraulic hose ends.



### Hose Only

Nominal Bore mm	Working Pressure MPa	Outside Dia. mm	Weight kg/m	Max. Lengths m	Part Number
▶ 6	20.7	13.4	0.24	152.4	05243912
▶ 10	20.7	17.5	0.36	152.4	05243963
▶ 13	20.7	20.8	0.48	152.4	05244065

### Assemblies Only

Nominal Bore mm	Assembly Length m	End Fitting 1 BSP	End Fitting 2 BSP	Part Number
● 10	10	3/8 Male	3/8 Female	05558055
● 10	10	3/8 Male	3/8 Male	05640063
▶ 10	15	3/8 Male	3/8 Female	05558072
▶ 10	30	3/8 Male	3/8 Female	05558089

## RUBBER HOSE - MULTI-PURPOSE

### Variflex Multi-purpose Hose



**Application:** An excellent quality, economical multi-purpose rubber hose perfect for use with compressors, pneumatic tools and with very good resistance to petroleum and oil based products. Non-conductive, minimum electrical resistance greater than one (1) megohm per inch of length of hose at 1000 V DC.

**Tube:** Nitrile Synthetic Rubber, RMA class A (High Oil Resistance).

**Reinforcement:** Spiral synthetic yarn.

**Cover:** Red Chemivic™ synthetic rubber, RMA Class A (high Oil resistance).



Nominal Bore mm	Working Pressure MPa	Outside Dia. mm	Weight kg/m	Max. Lengths m	Part Number
■ 6	2.1	13.5	0.15	152.4	05244439
■ 8	2.1	15.9	0.21	152.4	05244490
■ 10	2.1	17.5	0.23	152.4	01061810
■ 13	2.1	21.4	0.32	152.4	00997397
▶ 16	2.1	25.4	0.43	152.4	01062116
■ 19	2.1	28.6	0.50	152.4	00803250
■ 25	2.1	37.3	0.80	152.4	00803233
■ 32	1.7	45.6	1.11	122.0	05244541
■ 38	1.7	53.2	1.44	91.44	05244609

**KEY:** ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## Gorilla Multipurpose Hose



**Application:** A premium quality multipurpose industrial hose with a wide range of applications in factories, construction, agriculture, quarries, mines, railroads, the oil and gas industry and ship building. Non-conductive, minimal electrical resistance greater than one (1) megohm per inch of hose length at 1000 Volts DC. Suitable for use at temperatures between -29°C to 88°C.

**Tube:** Chemigum® synthetic rubber, RMA Class A (high oil resistance).

**Reinforcement:** Spiral Flexten® yarn.

**Cover:** Yellow Carbryn® synthetic rubber, RMA Class A (high oil resistance) MSHA Approved with superior abrasion resistance.



Nominal Bore mm	Working Pressure MPa	Outside Dia. mm	Weight kg/m	Max. Lengths m	Part Number
● 10	3.4	18.6	0.33	152.4	04109621
▶ 12.5	3.4	22.6	0.42	152.4	04109638
▶ 19	3.4	30.2	0.61	152.4	04109672
▶ 25	3.4	38.1	0.86	137.2	04109689
▶ 32	3.4	45.2	1.18	137.2	05636510
▶ 38	3.4	51.8	1.27	91.44	05636527

## Super Ortac® Air Hose (Bull Hose)



**Application:** Heavy Duty service for air compressors; Suitable for use at temperatures between -29°C up to +93°C. Excellent bend radius.

**Tube:** Black Nitrile synthetic rubber, RMA Class B medium oil resistance

**Reinforcement:** Braided (1) steel wire helix

**Cover:** Yellow Chemivic® synthetic rubber, RMA Class B medium oil resistance



Nominal Bore mm	Outside Dia. mm	Weight kg/m	Max. WP Mpa	Part Number
▶ 51	64.3	2.34	6.9	04127080

## Flexagrip Push-On Hose



**Application:** For use with push-on fittings at maximum working pressures of 2.07mpa (300psi). Designed for use with low pressure hydraulic pneumatic systems such as robotics, shop air systems, general industrial maintenance and automotive applications. Non-conductive, minimum electrical resistance greater than one (1) megohm per inch of hose length at 1000 Volts DC. Flame Resistant, USMSHA approved.

**Tube:** Chemivic® oil and heat resistant rubber; RMA Class A high oil resistance

**Reinforcement:** Braided high strength yarn laid at an angle for strength and coupling holding ability

**Cover:** Carbryn® black abrasion and oil resistant rubber; RMA Class A high oil resistance.



Nominal Bore mm	Working Pressure MPa	Outside Dia. mm	Weight kg/m	Max. Lengths m	Part Number
▶ 6	2.07	12.0	0.12	152.4	05636544
▶ 8	2.07	15.7	0.21	152.4	05636561
▶ 10	2.07	17.0	0.19	152.4	05636578
▶ 13	2.07	19.3	0.21	152.4	05636595
▶ 16	2.07	23.6	0.28	152.4	05636612
▶ 19	2.07	26.9	0.36	152.4	05636629

## RUBBER HOSE – PETROLEUM & OIL

### V404 Oil Suction & Discharge Hose



**Application:** General purpose suction and discharge hose used to transfer gasoline, oil and other petroleum based products.

**Tube:** NBR.

**Reinforcement:** Synthetic fabric plies (2) with wire helix.

**Cover:** NBR; wrapped finish.

**Temperature Range:** -20°C to +70°C.



Nominal Bore mm	Outside Dia mm	WP (PSI)	Roll Quantity m	Part Number
▶ 25	36	150	30/60	04129103
▶ 32	43	150	30/60	04129120
▶ 38	49	150	30/60	04129137
▶ 50	63	150	30/60	04129171
▶ 63	77	150	30/60	04129290
▶ 75	89	150	30/60	04129324
▶ 100	118	150	30	04129375

### V401 Petrol & Oil Delivery Hose



**Application:** General purpose discharge hose used to transfer gasoline, oil and other petroleum based products.

**Tube:** NBR.

**Reinforcement:** Synthetic fabric plies (2).

**Cover:** NBR; wrapped finish.

**Temperature Range:** -20°C to +70°C.



I/D mm	O/D mm	WP (PSI)	Roll Quantity m	Part Number
▶ 19	29	150	30/60	04127335
▶ 25	38	150	30/60	04127369
▶ 32	44	150	30/60	05780313
▶ 38	51	150	30/60	04127403
▶ 50	61	150	30/60	03466069
● 63	74	150	30/60	04127454
▶ 75	88	150	30/60	04127471
▶ 100	113	150	30	04127488

### Plicord Extremeflex Petroleum



**Application:** An extremely flexible and lightweight hose for use in tank truck and in-plant operation to transfer diesel, ethanol, gasoline, oil and petroleum based products up to 60% aromatic content. Corrugated construction for lower drag coefficient and superior abrasion resistance.

**Tube:** Black Nitrile synthetic rubber (Class A Oil Resistance).

**Reinforcement:** Spiral plied synthetic fabric with wire helix.

**Cover:** Black Chemivc synthetic (corrugated).

**Temperature Range:** -40°C to +93°C



Nominal Bore mm.	Outside Dia mm.	WP (PSI)	Bend Radius	Part Number
▶ 19	30.5	250	19	04129086
■ 25	36.8	250	25	09852884
■ 32	43.5	250	32	09852901
■ 38	48.5	250	38	09852918
■ 51	61.8	250	51	09852935
▶ 63	76.1	200	64	09852952
▶ 75	88.8	200	76	09852969
▶ 102	115.7	150	101	09852986
▶ 152	168.1	150	146	09853003

### Flexsteel Petrol Hose to AS2683



**Application:** Flexsteel Petrol Pump hose is a premium hardwall hose which offers the ultimate in kink resistance, low volumetric expansion, service life and reliability. Meeting the performance criteria of AS2683-2000 Type 4, Grade 2, Kind 1 & 2 and BS3395 – 1989 Type 3. It's single braid of high tensile wire reinforcing, coupled with specially developed compounds (intrinsically conducting), makes this the safest and most durable hose available for this application. Working Pressure 250 Kpa with a 4:1 safety factor for applications other than petrol dispensing.

**Tube:** Black Chemigum® (Nitrile).

**Reinforcement:** Single braided high tensile wire.

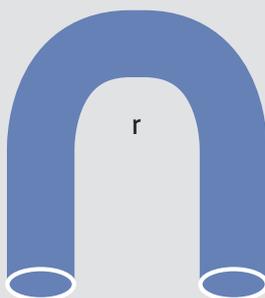
**Cover:** Black Chemivac® (Nitrile blend).

**Temperature Range:** Petrol dispensing applications should only be operated at ambient temperatures -29°C to +82°C for applications other than petrol dispensing.



Nominal Bore mm	Outside Dia mm	WP (PSI)	Roll Quantity m	Part Number
▶ 16	26.14	36	155.44	05636884
▶ 19	31.75	36	155.44	05636918
▶ 25	35.28	36	155.44	05636952

## Don't Over Bend Your Hose!



The bend radius 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.

## Minimum Bend Radius Recommendations

HOSE	WIRE REINFORCED	NON-WIRE REINFORCED
Up to 50mm I/D	6 Times ID	12 Times ID
Over 50mm I/D	8 Times ID	12 Times ID

The minimum bend radius that the 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.

We recommend the above be used as a guide only. For further information please contact your local Hose Specialist at [hoseandflow@nzsafetyblackwoods.co.nz](mailto:hoseandflow@nzsafetyblackwoods.co.nz)

# RUBBER HOSE – PETROLEUM & OIL

## BC Marina Fuel Hose



**Application:** Designed as a non marking petroleum dispensing hose for pleasure craft and commercial boats at fresh and salt water marinas. UL330 & ULC approved.

**Tube:** Black Nitrile synthetic rubber.

**Reinforcement:** Braided synthetic yarns with static wire.

**Cover:** Green non-marking Chemivic® synthetic rubber.



Nominal Bore mm	Outside Dia. mm	Weight kg/m	Max. Lengths m	Part Number
▶ 25	38.1	0.97	152.4	<b>05637020</b>

## Pyroflex® Hot Tar Wand Hose



**Application:** High quality wand hose used with asphalt crack filling applicator and dispensing service. -32°C to +177°C.

**Tube:** Black Chemigum® synthetic rubber (special heat resistant).

**Reinforcement:** Spiral plied steel wire braid.

**Cover:** Black Wingprene® synthetic rubber (wrapped finish) flame retardant.



Nominal Bore mm	Working Pressure MPa	Outside Dia. mm	Weight kg/m	Max. Lengths m	Part Number
▶ 19	2	33.8	0.95	60.96	<b>04123153</b>
▶ 25	2	40.9	1.25	60.96	<b>01000831</b>

## Aggie Gas Fuel Hose



**Application:** Multi-use hose for dispensing gasoline, grease, kerosene and petroleum oils from farm and barrel type pumps. Designed for the rural market and industrial service where UL approved hoses are not a requirement.

**Tube:** Black Chemigum® synthetic rubber.

**Reinforcement:** Spiral synthetic yarn with static wire.

**Cover:** Black Chemivic® synthetic rubber.



Nominal Bore mm	Outside Dia. mm	Weight kg/m	Max. Lengths m	Part Number
● 19	28.6	0.40	152.40	<b>05638482</b>
▶ 25	34.9	0.77	152.40	<b>05638499</b>

## DEFINITIONS: RUBBER TYPES

Rubber Hose abbreviations and definitions:

SBR	Styrene-Butadiene Rubber – also known as Buna S
EPDM	Ethylene Propylene Diene M-class (polymethylene) rubber
NBR	Nitrile Butadiene Rubber – also known as Nitrile rubber
ABR	Acrylate-Butadiene Rubber
PVC	PolyVinyl Chloride
Neoprene	Also known as polychloroprene
UHMWPE	Ultra High Molecular Weight PolyEthylene – also known as High-Modulus Polyethylene (HMPE) or High-Performance Polyethylene (HPPE)

## THINGS YOU NEED TO KNOW TO SPECIFY A HOSE

S = Size (ID and length)

T = Temperature

A = Application

M = Media

P = Pressure

E = Ends

D = Delivery

## RUBBER HOSE – WASHDOWN

### Sani-Wash™ Plus 300



**Application:** High quality, lightweight and economical washdown hose for carrying hot water in clean up service up to 93°C. Ideal for use in food processing plants, wineries, breweries, dairy factories, packing houses, bottling plants and canneries.

**Tube:** Black Chemigum® rubber, RMA Class A (high oil resistance) non-FDA.

**Tube:** Spiral synthetic yarn.

**Cover:** White Chemivic® synthetic rubber.



Nominal Bore mm	Outside Dia. mm	Max. Lengths m	Max. Working Pressure Mpa	Part Number
▶ 19	30	152.4	2.1	<b>04811655</b>
▶ 25	38	152.4	1.9	<b>05244116</b>

**KEY:** ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## Fortress 300 Washdown with

**Application:** High quality hose for clean up service in food processing plants, dairies, packing houses, bottling plants, wineries, breweries and canneries. Fortress 300 Hose is manufactured with Microban® product protection for the hose cover. This new technology provides the user with a hose cover that inhibits the growth of bacteria, mould, fungi and microorganisms that can cause odour, stains or degradation of the hose cover and it's engineered to last the life of the hose.

The Microban® hose cover protection is intended to protect the hose cover only and is not a substitute for good sanitary practices. Fortress 300 is rated for a maximum working pressure of 2.1Mpa and is suitable for use at temperatures between -29°C to +93°C.

**Tube:** Black Chemigum® rubber.

**Reinforcement:** Spiral synthetic yarn.

**Cover:** Yellow Carbryn® synthetic rubber, RMA Class A (high oil resistance) with Microban® product protection.



Nominal Bore mm	Outside Dia. mm	Max. Lengths m	Weight kg/m	Part Number
▶ 13	22.8	152.4	0.46	<b>06066219</b>
▶ 19	30.2	152.4	0.65	<b>06066202</b>
▶ 25	38.1	152.4	0.97	<b>06066185</b>

## FDA Blue Fortress 300 with

**Application:** A high quality construction for hot water up to 93°C cleanup service in food processing plants, dairies, packing houses, bottling plants, breweries, canneries and creameries. Its super abrasion and oil resistant cover provides maximum protection against the adverse effects of oil and animal fats. The cover of Blue Fortress® 300 hose incorporates Microban's® antimicrobial built in product protection. The white tube is comprised of FDA compliant materials.

**Tube:** White FDA compliant nitrile synthetic rubber.

**Reinforcement:** Spiral synthetic yarn.

**Cover:** Blue Carbryn™ synthetic rubber, RMA Class A (High Oil Resistance) with Microban® product protection.

**Temperature:** -29°C to +93°C.



Nominal Bore mm	Outside Dia mm	WP PSI	Roll Quantity m	Kg/m	Part Number
▶ 13	22.8	300	152.4	0.45	<b>00640636</b>
▶ 19	30.2	300	152.4	0.65	<b>00640653</b>
▶ 25	38.1	300	152.4	0.95	<b>00640670</b>

## RUBBER HOSE – FOOD INDUSTRY

## Plicord® ExtremeFlex® Food Grade

**Application:** An extremely flexible and lightweight hose for transferring oily and non-oily edibles in gravity flow, pressure or suction service.

**Tube:** White Chemivic™ synthetic rubber (FDA/USDA compliant and conforms to 3-A sanitary standard 18-03). ExtremeFlex® has a working pressure of 1.03 Mpa and a vacuum rating of 29HG @ 20°C. Temp range -32°C to +100°C

**Tube:** Spiral-plied synthetic fabric with galvanized wire helix.

**Cover:** Blue Chemivic™ synthetic rubber (wrapped impression)



Nominal Bore mm	Outside Dia. mm	Bend Radius mm	Max. Lengths m	Part Number
▶ 25	36.0	25	30.48	<b>00866328</b>
▶ 32	41.5	32	30.48	<b>00866311</b>
▶ 38	49.3	38	30.48	<b>05642120</b>
▶ 50	60.8	51	30.48	<b>09853020</b>
▶ 63	76.3	63	30.48	<b>09853037</b>
▶ 75	88.7	76	30.48	<b>09853054</b>
▶ 102	115.4	102	30.48	<b>09853071</b>

## Vintner™ Food & Beverage Hose

**Application:** For handling in-plant and/or tank truck transfer of wine, beer, potable water and other non-oily liquid foodstuffs. Flexible, and extremely lightweight it complies with FDA, 3-A, and USDA standards. All sizes rated to a maximum working pressure of 1.7Mpa for actual service conditions the Vintner™ hose can withstand +104°C which allows the hose to be steam cleaned.

**Tube:** White Chlorobutyl rubber

**Reinforcement:** Spiral plied synthetic fabric with monofilament helix

**Cover:** Grey Versigard® synthetic rubber with purple spiral stripe, wrapped finish



Nominal Bore mm	Outside Dia. mm	Bend Radius mm	Max. Lengths m	Weight kg/m	Part Number
▶ 25	41.0	76	30.48	1.06	<b>04123391</b>
▶ 38	53.6	102	30.48	1.46	<b>04123408</b>
▶ 51	68.0	177	30.48	2.05	<b>04123425</b>
● 64	81.5	254	30.48	2.65	<b>04123442</b>
● 76	97.9	304	30.48	3.86	<b>04123476</b>

## Infinity™ Food FDA

Constructed with the exclusive PVC double helix for superior flexibility, abrasion resistance and low coefficient of friction for ease of manoeuvrability. Lightweight in construction. Infinity HD is designed for higher working pressure applications (150psi). It is suitable in gravity flow or medium suction at ambient temperature. Designed for transfer of food products.

**Tube:** White nitrile (chemivic) FDA Compliant

**Reinforcement:** Synthetic fabric plies

**Cover:** Black chemivic rubber with double pliovic orange helix



Inside Dia. mm	Outside Dia. mm	Max. WP psi	Bend Radius cm	Weight kg/m	Part Number
▶ 102	122.5	150	7.62	2.99	<b>09853088</b>
▶ 76	95.9	150	5.08	2.21	<b>02883837</b>

## ExtremeFlex® Brewers Ezy Clean

Enhanced flexibility and lightweight.

For use with Beer, Wine, Distillery and Beverage applications.

EZY Clean UHMWPE cover

White FDA liner

Conforms to 3-A sanitary standard 18-03

Temp Rating -34°C to +104°C

Full vacuum rating

Pressure rating 1" – 2" 250PSI, 3" 200 PSI and 4" 150 PSI



Inside Dia. mm	Outside Dia. mm	Max. WP psi	Max. WP MPa	Part Number
▶ 25.4	38.7	250	1.72	<b>03504422</b>
▶ 38.1	51.6	250	1.72	<b>03504439</b>
▶ 50.8	64.5	250	1.72	<b>03504456</b>
▶ 76.2	91.5	200	1.38	<b>03504490</b>
▶ 101.6	117.0	150	1.03	<b>03504507</b>

# RUBBER HOSE – STEAM, ACID, CHEMICAL & LPG

## Hose Brewers Purple Snake



Red, fabric patterned special cover, resistant to ozone, weather, UV and abrasion. White, non porous and high performance special lining, absolutely neutral to taste and odour.

Reinforcements synthetic fibres

Temperature resistant from -30°C to +90°C

Can be steamed up to 130°C (max. 30 minutes)

Suitable for pure alcohol up to 98%

Meets requirement of EG1935/2004 and EG 2023/2006



Nominal Bore mm	Outside Dia. mm	Max. Working Pressure bar	Part Number
● 50	66	16	03504524
● 65	89	16	03504541
● 75	96	16	03504558

## RUBBER HOSE – STEAM

### Flexsteel® 250 Steam Hose



**Application:** Used for cleaning, heat control, fire prevention, pumping, thawing, blow out service, steam pumps and hoists in open end or permanent installation operations. It is used in refineries, shipyards, chemical plants, steel mills, foundries and heavy industrial applications where high strength is required and where severe environmental conditions are encountered. Designed for use at temperatures between -18°C to +218°C.

**IMPORTANT:** To extend hose life ensure hose is drained thoroughly after use.

**Tube:** Black Pyrosyn® synthetic rubber.

**Reinforcement:** Braided steel wire (19 & 25mm sizes have 2 steel wire braids).

**Cover:** Red Pyrosyn® synthetic rubber, smooth finish, pin-pricked.



Nominal Bore mm	Outside Dia. mm	Working Pressure MPa	Weight kg/m	Max. Lengths m	Part Number
▶ 13	26.9	1.72	0.60	60.96	05637037
▶ 19	32.5	1.72	0.73	60.96	05637054
▶ 25	41.4	1.72	1.16	60.96	05637071

### Plicord® 250 Steam Hose



**Application:** Used for all around steam service in chemical plants, refineries, shipyards and demanding industrial service. It is recommended for cleaning, thawing, blowout service, steam pumps, hoists and other applications involving steam. -18°C to +208°C.

**IMPORTANT:** To extend hose life ensure hose is drained thoroughly after use.

**Tube:** Black Versigard® synthetic rubber.

**Reinforcement:** Spiral-plied steel wire.

**Cover:** Red Versigard® synthetic rubber with yellow brand for colour coding (wrapped impression).



Nominal Bore mm	Outside Dia. mm	Weight kg/m	Max. Lengths m	Part Number
▶ 32	45.9	1.24	30.48	04127284
▶ 38	53.1	1.53	30.48	04127301
▶ 50	70.6	2.80	30.48	04127318

## RUBBER HOSE – ACID, CHEMICAL & LPG

### Chem-One® Chemical Transfer Hose



**Application:** V-Wing series – flexible, lightweight and durable. Suitable for pressure, gravity and suction service for transferring a wide range of industrial chemicals. (Chemical reference charts available on request).

**Tube:** Alphasyn® modified cross linked polyethylene.

**Reinforcement:** Spiral plied synthetic fabric with double wire helix.

**Cover:** Black corrugated abrasion resistant Omegasyn™ EPDM with red spiral stripe.



Nominal Bore mm	Outside Dia. mm	Weight kg/m	Max. WP Mpa	Part Number
▶ 25	36.8	0.73	1.38	09853190
▶ 32	42.2	0.78	1.38	09853207
▶ 38	48.3	0.93	1.38	09853224
▶ 51	61.8	1.28	1.38	09853241
● 63	75.6	1.84	1.38	09853258
▶ 76	88.1	2.17	1.38	09853275
▶ 102	115	3.06	1.38	02178881

### NR Paint Spray Hose



**Application:** NR Spray is a premium quality, multipurpose hose for handling a variety of applications such as paint fluids and agricultural pest and weed sprays. Will handle spraying paints, finish paints, lacquers, thinners, turpentine, air, oil and a large variety of solvents and chemicals. Temperature range from -18°C to +88°C.

**Tube:** Nylon, silicone free

**Reinforcement:** Braided synthetic yarn. Black synthetic rubber.



Nominal Bore mm	Outside Dia. mm	Working Pressure MPa	Standard Length m	Part Number
▶ 6	13	5.2	152.4	05637122
▶ 10	17	5.2	152.4	05637139
▶ 12	22	5.2	152.4	05637156
▶ 25	38	5.2	152.4	05637173

## STEAM ALERT



Pressurised steam is an extremely dangerous commodity. Only hoses that have been approved for steam service should be used for any steam application.

It is advisable to always follow the manufacturer's product recommendation.

KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## RUBBER HOSE – MATERIAL HANDLING

### Allcrete Textile with Survivor®

**Application:** Used in plaster and grout and concrete applications, handling a multitude of materials this can be used as a flexible connection between piping.

**Tube:** Black Tufsyn® synthetic rubber.

**Reinforcement:** Spiral-plied high – strength fabric.

**Cover:** Black Plioflex® rubber (wrapped impression).

**Temperature Range:** -32°C to 82°C.



Nominal Bore mm	Outside Dia. mm	Working Pressure MPa	Weight Kg/m	Maximum Length m	Part Number
▶ 50	72	6.9	2.04	30.48	04129460
▶ 63	86	6.9	2.59	30.48	04129494
▶ 75	99	5.5	3.22	30.48	04129511
▶ 102	125	4.8	4.18	30.48	04129562

### V801 Muff Coupling Hose

**Application:** An abrasive slurry hose to be used in conjunction with split muff couplings (also available). High strength needed to handle pressure or suction service in the transfer of dry bulk, slurry, salt, cement, fertilisers and a limited number of oil based products.

**Tube:** SBR/NBR Blended.

**Cover:** Black NR/EPDM Blended; wrapped finish Synthetic fabric plies (2) with wire helix.

**Temperature Range:** -20°C to +70°C.

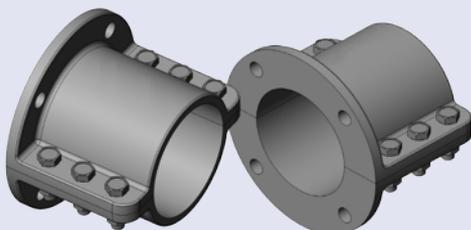


ID mm	Nom. OD mm	Max. WP mpa	Weight Kg/m	Length m	Part Number
● 75	75	0.69	6.06	30	04789259
● 100	128	0.69	7.45	30	04789356
● 125	157	0.69	9.75	30	04789458
● 150	185	0.69	11.94	30	04789554
● 200	235	0.69	18.17	10	04789656
● 250	287	0.69	24.63	10	04789758
● 300	344	0.69	33.39	10	04789855

## RELATED PRODUCT

### Muff Couplings

- Designed to be used with Muff Coupling Hose
- Available in aluminium AC601 and grey cast iron
- Flange available in Table D, Table E and ANSI Configurations



Available on request

### Kanaflex 180AR Material Handling Hose



**Application:** Water, light chemical solutions. Vacuum and abrasive dust collection. Suitable for suction and delivery. Assemble with spiral clamps.

**Temperature Range:** 0°C to +60°C.

**Reinforcement:** Rigid PVC helix.

**Special Features:** Antistatic, abrasion resistant, UV stabilised.



Nominal Bore mm	Outside Dia. mm	Bend Radius mm	WP/ PSI	Vac m@h/20	Weight Kg/m	Part Number
▶ 50	60.2	60	40	10.3	0.73	02895431
▶ 65	75.0	65	35	10.3	0.98	02895448
▶ 76	88.4	76	35	10.3	1.36	02895465
▶ 90	105.0	100	30	10.3	1.75	02895482
▶ 102	118.0	115	30	10.3	2.03	02895499
▶ 125	147.0	125	30	9.6	3.11	02895516
▶ 150	172.2	235	30	9.3	4.28	02895533
▶ 200	230.0	380	30	9.3	6.33	02895550

## RUBBER HOSE – AUTOMOTIVE

### Automotive Fuel Line SAE30R7 Hose

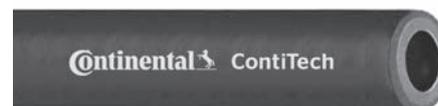


**Application:** The oil and petrol resistant cover withstands exposure to fuel, vapour, heat and moisture, while the rubber tube is specially compounded to resist petrol, oil, diesel fuel, and other fuels. Meets SAE J30R7 specifications. Available in 7.6 metre spools for re-stocking fuel hose merchandisers and in bulk longer lengths on reels up to a maximum length of 152.4 metres to eliminate wastage.

**Tube:** Black Chemigum® rubber.

**Reinforcement:** Synthetic textile.

**Cover:** Black Hysunite™ rubber.



Nominal Bore mm	Outside Dia. mm	Max. Working Pressure MPa	Part Number 7.6m spools	Part Number Bulk Lengths
■ 5	10	0.35	05636374	05244643
■ 6	13	0.35	05636357	05244711
■ 8	14	0.35	05636408	05244779
■ 10	16	0.35	05636391	05244796
▶ 13	20	0.24	-	05244847
▶ 16	24	0.24	-	05244881

### Automotive Air Brake Hose



**Application:** For compressed air brake systems on trucks and buses. Meets Table A 9003-SAE J1402A specifications and DOT FMVSS-106 requirements.

**Tube:** Black synthetic rubber

**Reinforcement:** Spiral Synthetic Cord

**Cover:** Black synthetic rubber



Nominal Bore mm	Outside Dia. mm	Max. Working Pressure MPa	Max. Length m	Part Number
■ 9.5	19	1.55	152.4	05638414
■ 12.7	22	1.55	152.4	05638431

# RUBBER HOSE – AUTOMOTIVE

## Blue Elite Radiator Hose



**Application:** Designed for heavy duty service with commercial, transportation industry, fleet and off road vehicles. Developed to provide users with a hose at a price much lower than silicone based hoses. These hoses are compatible with ethyl glycol, resistant to incidental exposure to oil, acids and abrasion and can withstand continuous temperatures reaching 149°C and intermittent temperatures of 162°C. Will last from engine overhaul to engine overhaul and meets or exceeds all requirements of SAE J20R1, D1 specifications. Supplied in 915mm (3 foot) lengths.

**Tube:** Black Versigard® rubber.

**Reinforcement:** 2 plies of Flexten® cord.

**Cover:** Blue Versigard® rubber.



Nominal Bore mm	Continental Product Code	Part Number
22	57214	05638091
25	57216	05638108
28	57218	05638125
32	57220	05638142
35	57222	05638159
38	57224	05638176
41	572	05638193
44	57228	05638210
48	57230	05638227
51	57232	05638244
54	57234	05638261
57	57236	05638278
60	57238	05638295
64	57240	05638329
70	57244	05638346
76	57248	05638363
89	57256	05638380
102	57264	05638397

## Blue Xtreme Heater Hose



**Application:** This strong high temperature rated heater hose resists the effects of heat and electrochemical degradation. Made from a high temperature Versigard® rubber and reinforced with heat resistant Flexten® cord. Built to outlast standard heater hose without the cost of more expensive silicone hose. High profile blue cover allows fast identification. Exceeds SAE30R3 Class D – HT (high temperature designation) – EC (electrochemical) specifications. Suitable for maximum temperatures up to 149°C. Available in either 15.24m pre-packed retail type dispensing cartons or on longer bulk 76.2 metre lengths to minimise wastage.

**Tube:** High Temperature Black Versigard® rubber.

**Reinforcement:** Flexten® cord.

**Cover:** High Temperature Blue Versigard® rubber.



Nominal Bore mm	Max. Working Pressure MPa	Part Number 15.2m ctn	Part Number 76.2m ctn	Part Number 152.4m reel
13	0.40	05637377		
16	0.40	05637394	05638703	05795103
19	0.35	05637411	05638720	
25	0.31	05637428		

## Standard Black Car Heater Hose



**Application:** Designed for transporting hot water through car heater systems. Specially compounded to provide long service life on most vehicles at an affordable price. Similar to SAE20R3 Class D-2. -40°C to 121°C.

**Temperature range:** -40°C to +121°C.

**Tube and Cover:** Black Versigard® to resist ozone, heat and oil.

**Reinforcement:** Synthetic Textile.



Nominal Bore mm	Nominal Outside Dia. mm	Working Pressure MPa	Weight kg/m	Max. Length Metres	Part Number
13	20	0.41	0.24	152.4	05639332
16	23	0.41	0.32	152.4	05639349
19	27	0.41	0.38	152.4	05639366

## Automotive Washer/Vacuum Tubing



**Application:** All rubber vacuum and wiper tubing resists oil, grease and ozone effects. Meets SAE J200 AA807 and is ideal for vacuum operated accessories. Remains flexible at low temperatures and resists elevated under bonnet temperatures. Individually packaged on 15.24 metre (50') spools to fit most display merchandisers.

**Tube:** Black Versigard® rubber



Nominal Bore in.	Outside Dia. in.	Continental Product Code	Part Number
5/32	3/16	65111	05636425
7/32	1/4	65112	05636442

## RELATED PRODUCT

### Ebony Thread Sealing Tape



- Easily applied, economical, non-toxic, hypoallergenic, low density white PTFE tape

■ Part Number 05122404



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**KEY:** ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## RUBBER HOSE – MARINE

### Lloyds Wet Exhaust Hose

**Application:** Used to convey wet exhaust gases.

**Tube:** Black smooth synthetic rubber.

**Reinforcement:** Synthetic cord, high tensile steel wire.

**Cover:** Corrugated black flame resistant cover made from Synthetic rubber.



Nominal Bore mm	Bend Radius mm	Max. Working Pressure Psi	Part Number
25	110	75	05780398
32	130	75	05780415
38	150	75	05780432
44	180	75	05780449
51	200	75	05780466
64	254	75	07220060
76	380	75	05780483
88	400	75	05638822
102	460	75	05780500
114	550	75	05796395
127	650	75	05638873
152	700	60	05638669
203	1200	45	05638686

Other sizes available on request

### Marine Fuel Fill Hose

**Application:** Plicord® SAE J1527 Type A2, ISO 7840 and CE Fuel Fill hose is designed specifically for the marine industry. It is used for the connection for the vessel's fuel fill port down to the fuel tank. Continuous brand example "SAE J1527, USCG TYPE A2, ISO 7840." All sizes rated for 29" Hg Vacuum and available in maximum coil lengths of 30.48 meters.

**Tube:** Black Nitrile synthetic rubber.

**Reinforcement:** Spiral plied synthetic fabric with wire helix.



Nominal Bore mm	Outside Dia. mm	Bend Radius mm	Weight kg/m	Max. Working Pressure MPa	Part Number
19	30.0	47	0.60	0.69	05638992
25	35.0	51	0.80	0.69	05639009
32	43.2	70	1.01	0.69	05639026
38	47.1	92	1.25	0.69	05639043
51	61.7	107	1.50	0.34	05639060

### Marine Fuel Line Hose



**Application:** Marine Fuel Line USCG/SAE J1527 & ISO 7840 Type A1 is designed specifically for the marine industry. For fuel feed and vent applications on marine pleasure craft. It meets the US Coast Guard and International Marine Certification Institute requirements for type A1 service. One of the major features of this hose and why it is critical that it is the only hose used in these applications is the greatly reduced permeation rate compared to standard automotive hoses made to SAE J30R7 specifications. Continuous brand example "USCG/SAE J1527 TYPE A1 ISO 7840-A1 CE."

**Tube:** Black Nitrile synthetic rubber.

**Reinforcement:** Spiral plied synthetic fabric with wire helix.

**Cover:** Black Chemivic® synthetic rubber with red spiral tape.



Nominal Bore mm	Outside Dia. mm	Bend Radius mm	Weight kg/m	Max. Working Pressure MPa	Part Number
6	16.5	0.25	76.2	0.34	05638907
8	18.0	0.28	76.2	0.34	05638924
10	19.8	0.30	76.2	0.34	05638941
13	22.6	0.39	76.2	0.25	05638958
16	26.9	0.52	76.2	0.25	05638975

## ELECTRONIC ASSET MANAGEMENT SYSTEM



Keep track of your assets with our Electronic Asset Management System. Benefits of this advanced system include:

- Improved traceability of valuable assets
- 24 hour/7 day access to registers via a secure web site
- Significantly improved time in the production of registers
- Removal of potentially dangerous errors which can occur when handwriting registers
- Highlighting of due or overdue assets in our online scheduler
- The removal of condemned assets is quicker resulting in faster replacement response ensuring compliance is maintained at all times
- Opportunity for your register to contain images of your assets for easy identification.

For more information contact our hose specialists on [hoseandflow@nzsafetyblackwoods.co.nz](mailto:hoseandflow@nzsafetyblackwoods.co.nz)



# PVC HOSE – AIR, WATER & WASHDOWN

## PVC PRESSURE HOSE – AIR & WATER

### Multiflex Pressure Hose



High pressure airline and compressor hose which exceeds AS/NZS2554 Class B for burst pressure and wall thickness requirements. Extremely flexible, kink resistant with distinctive yellow and blue striping for high visibility. Abrasion resistant. Excellent low temperature flexibility.



Nominal Bore mm	Outside Dia. mm	Max. Working Pressure MPa @ 20°C Mpa	Max. Length m	Part Number
6	12.8	2.0	100	06558148
8	14.8	2.0	100	06558165
10	16.6	2.0	100	06558182
13	19.3	2.0	100	06558199
20	29.0	1.6	100	06558216
25	34.6	1.6	100	06558233

### Air Hose Assemblies – Ready to Use

Factory fitted air hoses ready to be supplied with ¼ male and female couplings. 10mm I.D.



Length m	Part Number
10	03157553
20	05897902
30	05897919

### Divers Air Breathing Hose



Approved braided divers air breathing hose which is also suitable for breathing apparatus for spray booths and sand blasting. Conforms to AS2299 and AS/NZS 1716. Outer cover pricked for added safety.



Nominal Bore mm	Outside Dia. mm	Max. Working Pressure MPa @ 20°C Mpa	Max. Length m	Part Number
8	14.32	1.6	100	03784445
10	17.0	2.5	100	05642443

### Budget PVC Pressure Hose

Economical Yellow PVC airline hoses and Blue PVC airline hoses with good flexibility and a smooth outer cover designed for workshop use.



Nominal Bore mm	Colour	Max. Working Pressure MPa @ 20°C Mpa	Max. Length m	Part Number
10	Yellow	1.7	100	05640148
10	Blue	1.7	100	05640420

## PVC PRESSURE HOSE – WASHDOWN

### Greenkeeper Washdown Hose



Heavy duty cold water washdown hose ideal for parks, gardens, dairy washdown and cattle yards. Excellent low temperature flexibility for ease of use and with a smooth outer cover.



Nominal Bore mm	Outside Dia. mm	Max. Working Pressure MPa @ 20°C Mpa	Max. Length m	Part Number
19	26.5	1	100	04748265
25	34.0	1	100	04748362
32	42.5	1	100	04748464
38	49.5	1	60	04748566

### Super Wash Cold Water Washdown Hose



Ribbed black PVC cover with green stripe and black PVC inner tube. Extreme flexibility at low temperatures.

Temperature Range: -10°C to +50°C



Nominal Bore mm	Outside Dia. mm	Max. working pressure Mpa	Max. Length m	Part Number
20	29.1	1.00	100	03223361
25	34.6	1.00	100	03223378
32	44.2	1.00	100	03223395
38	51.0	1.00	60	03223412

### TMPII Multi-Purpose Hose



Suitable as a non-toxic multi-purpose hose for transferring air, water, powdered foods and petroleum based products.

Meets AS/NZS 2554 1998 Class B and AS/NZS 2070 1999 Food Contact standard.

Temperature Range: -10°C to +60°C.

Tube: glass, clear, smooth, PVC with blue tint.

Reinforcement: polyester with spiral red tracer.

Cover: glass, clear, smooth, PVC with blue tint.



Nominal Bore mm	Outside Dia. mm	Max. Working Pressure MPa @ 20°C Mpa	Max. Length m	Part Number
6.0	12	1.7	100	04193900
8.0	14	1.7	100	04194006
10.0	16	1.7	100	04194103
12.5	19	1.7	100	04194200
16.0	24	1.7	100	04415803
20.0	28	1.7	100	04194307
25.0	35	1.7	100	04194404
32.0	42	1.0	60	04294401
38.0	51	1.0	40	04194501
50.0	63	1.0	40	04194608

KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## PVC PRESSURE HOSE – MULTI-PURPOSE

### Gas AS1869 Hose

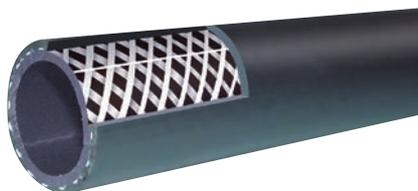
For the flexible gas connection for portable and fixed appliances only. It has a black inner wall and orange outer cover. Hose meets the requirements of AS1869C and should only be fitted and installed by qualified registered gasfitters and plumbers.



Nominal Bore mm	Outside Dia. mm	Max. Working Pressure MPa @ 20°C Mpa	Max. Length m	Part Number
▶ 5	13	2.6	100	<b>05642137</b>
▶ 6	14	2.6	100	<b>05642154</b>
▶ 10	18	2.6	100	<b>05642171</b>

### Agricultural Spray Hose

Agricultural spray hose is designed to handle the chemicals use for weed and pest control spraying. Supplied in 100 metre lengths and designed with a ribbed cover for superior abrasion resistance.



Nominal Bore mm	Min Burst Pressure Psi	Max. Lengths m	Part Number
▶ 8	2280	100	<b>06632625</b>
▶ 10	2280	100	<b>06632642</b>
▶ 13	2000	100	<b>06632659</b>
▶ 19	1420	100	<b>06632676</b>

### Black Un-Reinforced Nitrile Tubing

Un-reinforced Nitrile rubber tubing suitable for use with petrol, diesel or kerosene products in gravity supply situations only. Maximum lengths of 100 metres.



Size mm	Part Number
▶ 5	<b>05643820</b>
▶ 6	<b>05643837</b>
▶ 8	<b>05643854</b>
▶ 10	<b>05643871</b>

### Agricultural Spray Hose – Chemspray 300

For medium pressure weedicide, pesticide and general chemical transfer. All sizes rated to a max. working pressure of 2.1 Mpa @ 20°C.



Nominal Bore mm	Outside Dia. mm	Max. Lengths m	Part Number
▶ 8	14.4	100	<b>05210252</b>
▶ 10	16.4	100	<b>04752264</b>
▶ 13	19.0	100	<b>04752366</b>
▶ 20	27.5	100	<b>03034082</b>
▶ 25	35.2	100	<b>05210269</b>

## PVC HOSE – LAYFLAT

### Medium Pressure Layflat Hose



**Application:** Suitable for medium pressure water transfer requirements where longer lengths are required for irrigation, drainage and de-watering. In the larger sizes it is especially useful when large quantities of water need to moved quickly due to flooding, disasters or emergencies. This grade has superior strength and abrasion characteristics compared to the low pressure blue hose.



Nominal Bore mm	Max. Working Pressure MPa	Weight kg/m	Max. Length m	Part Number
▶ 40	1.0	0.30	100	<b>04820154</b>
▶ 50	1.0	0.42	100	<b>04820256</b>
▶ 65	1.0	0.54	100	<b>04820358</b>
▶ 75	0.9	0.66	100	<b>04820461</b>
▶ 100	0.9	1.00	100	<b>04820558</b>
▶ 150	0.7	1.68	100	<b>04820654</b>
▶ 200	0.5	2.20	100	<b>05641916</b>

### Low Pressure Layflat Hose



**Application:** Suitable for general purpose low pressure water transfer requirements where longer lengths are required for irrigation, drainage and de-watering. In the larger sizes it is especially useful when large quantities of water need to moved quickly due to flooding, disasters or emergencies.



Nominal Bore mm	Max. Working Pressure MPa	Weight kg/m	Max. Length m	Part Number
▶ 25	0.70	0.16	100	<b>05641865</b>
▶ 32	0.70	0.20	100	<b>05641882</b>
▶ 40	0.50	0.21	100	<b>08751212</b>
▶ 50	0.45	0.27	100	<b>01331419</b>
▶ 65	0.40	0.40	100	<b>00512019</b>
▶ 75	0.40	0.57	100	<b>02966812</b>
▶ 100	0.40	0.75	100	<b>00434954</b>
▶ 150	0.30	1.25	100	<b>00435454</b>
▶ 200	0.30	1.93	100	<b>04819158</b>
▶ 250	0.25	2.65	100	<b>05641899</b>

# PVC HOSE – GENERAL PURPOSE, FOOD & BEVERAGE

## PVC SUCTION HOSE – GENERAL PURPOSE

### NIBLAK – Black MD Petrol & Oil Suction



A medium duty chemical suction and discharge hose which is extremely flexible and offers a lightweight alternative to heavier hose products. Suitable for collection of waste, pumping the contents of grease pits, sewage, fuels, lubricants and most common chemicals.

Temperature Range: -5°C to +60°C.



Nominal Bore mm	Outside Dia. mm	Vacuum Rating KPa/20°C	Working Pressure 20psi	Min. Bend Radius mm	Max. Lengths	Part Number
20	25	-80	130	110	30	05640760
25	32	-80	130	120	30	05640777
32	39	-80	116	150	30	05640794
38	46	-80	101	200	30	05640811
51	60	-80	87	300	30	05640828
63	74	-80	87	400	30	05640845
76	89	-80	73	450	30	05640862
102	116	-70	58	600	20	05640879
127	143	-70	-	850	20	05640896
152	170	-70	-	1100	20	05640913

### Tigertail Suction Hose



An extremely flexible suction and discharge hose with a hard wearing exposed rigid PVC spiral. Excellent chemical resistance making the hose suitable for diesel fuels, petrol, oils, sewage, and common chemicals. Max. working pressure at 20°C 0.3 Mpa.

Temperature Range: -5°C to +60°C.



Nominal Bore mm	Outside Dia. mm	Vacuum Rating Kpa @ 20°C	Min. Bend Radius mm	Max. Lengths	Part Number
50	61	-80	220	20	05900146
63	76	-80	270	20	05900163
75	90	-80	350	20	05900180
102	118	-80	450	20	05356809
127	143	-80	475	20	05900197
152	167	-80	500	20	05356826
203	222	-80	650	20	05900214

### Spiraflex® Vacuum Hose



Spiraflex® Vacuum is designed for dust collection and exhaust transmission where airborne pollutants, fumes and odours are a major problem. Lightweight and extremely flexible all sizes are rated to 29" Hg Vacuum. Made with a smooth bore white Pliovic™ compound its corrugated outer cover provides minimum drag resistance.



Nominal Bore mm	Outside Dia. mm	Bend Radius mm	Max. Lengths	Part Number
25	31.0	64	30.48	05636646
32	38.1	84	30.48	05636663
38	44.7	97	30.48	05636680
51	59.7	140	30.48	05636697
64	72.9	178	30.48	05636714
76	86.9	203	30.48	05636731
102	115.1	356	30.48	05636748
152	167.4	635	30.48	05636765

KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## PVC SUCTION HOSE – FOOD & BEVERAGE

### Spirasteel Clear Suction Hose



A high quality multipurpose suction and discharge hose with a clear wall and excellent flexibility. Used widely in industrial, food & beverage processing, rural, and marine applications.

- Certified Food Grade: FDA CFR 21/ EU REACH/ASNZ 2070
- Non Toxic – Non Tainting

Temperature Range: -5°C to +60°C.



Nominal Bore mm	Outside Dia. mm	Min. Burst Pressure @ 20°C Mpa	Max. Lengths	Part Number
6	11	6.0	100	05641015
9	15	5.3	100	01180827
12	18	3.9	100	01180861
15	22	3.4	100	01187440
19	26	2.9	50	01187457
25	33	2.4	50	01180878
32	41	1.9	40	01187474
38	48	1.7	40	01187491
50	62	1.3	40	01180895
63	80	1.1	20	05641168
75	92	1.1	20	01187525
100	118	0.7	20	01185502

### Spirasteel HD – Hi Temp Suction



Great Flexibility and Clarity Non Toxic – Non Tainting 100°C Working Temp.

Temperature Range: -5°C to +100°C.

**Applications:** Milk and dairy, honey canning and food packaging, and wine and beverage industries. Suitable for wine & spirits up to 28% proof. Smooth, glossy bore enables easy cleaning and reduces bacteria build up. Exceptional clarity makes for an excellent 'racking' hose. This flexibility, combined with light weight, makes this hose easier to bend, position and carry. This is an important asset for OHS issues.

High Temperature rating makes it great for the honey and dairy industries, particularly where cleaning with hot water is applicable. 30m coils.



Nominal mm I.D	Nominal mm O.D	Vacuum Rating KPa/20°C	Working Pres. @20°C P.S.I.	Weight kg/m	Min Bend Radius mm	Part Number
32	41.5	-90	100	0.82	180	02887067
38	49.0	-90	85	0.89	210	02887084
51	62.0	-90	70	1.25	230	02887101

## SPECIALIST HOSE MANUFACTURING AND SERVICING

NZ Safety Blackwoods' specialist hose and flow team have vast experience in specifying, assembling and servicing complex hose solutions to suit a broad range of industries.

With expert knowledge and extensive exposure to the infrastructure, food and beverage, rural and petrochemical environments, we design, assemble, install and service industry-leading hose and flow solutions for our customers throughout New Zealand.

Contact us on [hoseandflow@nzsafetyblackwoods.co.nz](mailto:hoseandflow@nzsafetyblackwoods.co.nz).

## Claret XHD Wine Suction Hose



Designed for the conveyance this heavy duty suction hose is suitable for wines and spirits up to 28% alcohol content. Triple Certified to meet AS/NZS2070, USFDA 21 CFR parts 170 to 199 and to EU 2002/72/EC.

**Temperature Range:** -15°C to +60°C.



Nominal Bore mm	Outside Dia. mm	Vacuum Rating Kpa @ 20°C	Max. Working Pressure Mpa @ 20°C	Min. Bend Radius mm	Max. Lengths	Part Number
▶ 25	34	-90	0.7	160	20	<b>05641219</b>
▶ 32	41	-90	0.7	190	20	<b>05641236</b>
▶ 38	48	-90	0.6	230	20	<b>05641253</b>
▶ 50	62	-90	0.5	290	20	<b>05641270</b>
▶ 63	76	-90	0.05	360	20	<b>05641287</b>
▶ 75	90	-90	0.05	450	20	<b>05641304</b>
▶ 102	117	-90	0.4	640	20	<b>05641321</b>
● 152	170	-90	0.35	1200	20	<b>05641338</b>

## Extra Flex Wine Suction HD



Heavy duty PVC Suction hose – Non toxic and non tainting with new improved "triple certified" compound.

**Application:** For wine, canning and food packaging industries. Suitable for wine & spirits up to 28% alcohol. Smooth, glossy bore enables easy cleaning & reduces bacteria build up.

**Appearance:** Clear with Red Helix

**Temperature Range:** -5°C to 60°C

**Construction:** Clear flexible PVC hose body with encapsulated red spiral reinforcement from high impact resistant rigid PVC.

**Certifications:** Certified to contain no Phenol or Phthalate compounds. Complies with AS/NZS2070, USFDA 21 CFR parts 170 to 199 & to EU 2002/72/EC and all subsequent amendments up to 2014.



ID mm	OD mm	Vacuum Rating KPa/20°C	Working Press. @20°C PSI	Weight kg/m	Min Bend Radius mm	Coil Lengths m	Part Number
● 38	46.1	-80	75	0.76	230	20	<b>05625783</b>
▶ 38	46.1	-80	75	0.76	230	30	<b>05557541</b>
▶ 51	60.2	-80	70	1.05	290	20	<b>06600172</b>
▶ 51	60.2	-80	70	1.05	290	30	<b>05557375</b>
▶ 76	89.6	-80	65	2.31	450	20	<b>06316170</b>
▶ 76	89.6	-80	65	2.31	450	30	<b>00065508</b>

## THE BENEFITS OF QUALITY HOSE SOLUTIONS



Southern Hose and NZ Safety Blackwoods have collaborated with a number of major wineries to develop a hose that solved their complex issues. Some required a tougher hose for longevity, and many wanted flexibility to reduce the risk of injury.

Since its introduction into the New Zealand wine industry over 10 years ago, the Claret XHD Wine Suction hose has outperformed all other hoses, reducing wastage and minimizing downtime required to repair or replace hoses. Whilst other thinner walled PVC hoses trialed developed leaks or splits after only one season, the Claret XHD has been proven to last up to 6 years.

As well as providing this top quality product, NZ Safety Blackwoods also supplies heavy-duty fittings and crimped assemblies, as well as services such as pressure testing and annual certification, providing customers with the peace of mind that their hoses will not fail or leak during the season.



## Ultima SP Hose



**Application:** Pressure or suction of any liquid that requires food grade hose with UV stabilization, for wine, canning and food packaging industries. Suitable for wine and spirits up to 28% proof. Smooth, glossy bore enables easy cleaning and reduces bacterial build up. FDA certified compound is non-toxic, food grade (non-taint) and very low odour.

**Certification:** To FDA CFR 21 parts 175 to 199 and also AS/NZS2070.

**Construction:** Clear flexible PVC with steel helix and polyester braid

**Temperature Range:** -15°C to +60°C



ID (mm)	OD (mm)	Working Press (PSI)	Weight (kg/m)	Min. Bend Radius mm	Coil Length (m)	Part Number
▶ 25.4	35.6	150	0.68	80	20	<b>02883752</b>
▶ 32.0	41.5	150	0.89	100	20	<b>02883769</b>
▶ 38.0	50.0	150	1.15	125	20	<b>02773786</b>
▶ 51.0	62.5	150	1.58	200	20	<b>02883803</b>
▶ 76.0	91.0	120	2.49	300	20	<b>02883820</b>

## COMPOSITE HOSE

### COMPOSITE HOSE ASSEMBLIES

The most commonly used style of hose for the petro-chemical industry, these lightweight and extremely flexible hoses are assembled and supplied according to specific customer requirements.

All composite hose assemblies are tested, tagged and certified before despatch according to appropriate industry standards and codes of practice.

NZ Safety Blackwoods can also schedule and conduct six monthly or annual testing of all hoses on site and deliver customised reporting packages to suit the requirements of the customer.

Standard tests include visual inspections, electrical continuity tests, and hydrostatic pressure tests.



**For more detailed information about how NZ Safety Blackwoods can assist please contact [hoseandflow@nzsafetyblackwoods.co.nz](mailto:hoseandflow@nzsafetyblackwoods.co.nz)**

### Transoil Hose

**RADCOFLEX**

**Application:** Transoil is especially suitable for the suction and discharge transfer of petroleum products in in-plant applications. It is an excellent hose for conveying tallow and high aromatic hydrocarbons.

**Construction:** Black outer cover with marked white stripe; Inner and outer wires are galvanised mild steel.

**Classification:** Fuel and Oil Group 1 Hose

**Manufacture:** Complies with EN 13765 Type 3 and AS 2117 Type 3 Grade 1&2. A group 1 hose where electrical continuity is maintained by both hose wires being securely connected to the fittings.

**Temperature range:** -30°C to +80°C (dependant on conveyant).

**Note:** All pressures are based on a safety factor of 4:1



Nominal Bore mm	Outside Dia. mm	Working Pressure Bar	Bend Radius mm	Weight kg/m	Max. Lengths	Part Number
▶ 50	64	10	150	2.00	20	05558582
▶ 65	80	10	180	2.70	20	05558599
▶ 75	92	10	250	3.20	20	05558616
▶ 100	115	10	350	6.00	20	05558633
▶ 150	170	10	440	9.00	10	05558650

Other sizes from 25mm – 200mm available on request

### Transdock Hose

**RADCOFLEX**

**Application:** Transdock is suitable for the heavy duty suction and discharge transfer of petroleum products in road and rail tanker, dockside and and ship – ship or ship – shore applications. In general, composite hose is not recommended for conveying products with a fluid viscosity in excess of 400cSt (400mm<sup>2</sup>/sec) and a flow velocity in excess of 7m/sec (23 feet/sec).

**Construction:** Made from heavy duty polypropylene fabrics and films with a double layer of abrasion resistant PVC coated fabric cover. Inner and outer wires are galvanised mild steel.

**Classification:** Complies with EN 13765 Type 3 and AS 2117 Type 2 Grade 1 & 2. A group 1 hose where electrical continuity is maintained by both hose wires being securely connected to the fittings

**Temperature:** -30°C to +100°C



Nominal Bore mm	Outside Dia. mm	Working Pressure Bar	Bend Radius mm	Weight kg/m	Part Number
▶ 100	120	14	430	7.5	01000508

### Petrolfuel Light Hose

**RADCOFLEX**

**Application:** Petrolfuel Light is a light weight suction and discharge hose mainly for the transfer of petroleum products by road, rail tankers and loading gantries.

**Construction:** Yellow outer cover with buff stripe; Inner wire is aluminium and outer wire is galvanised mild steel.

**Classification:** Fuel & Oil Group 1 Hose

**Manufacture:** Complies with AS 2683 Type 1 Grade 1,2&3 and EN 13765 Type 1 and especially developed to meet the Australian Institute of Petroleum's AIP-CP 27 Code of Practice. The hose contains a barrier layer for 100% aromatic hydrocarbons.

**Temperature range:** -30°C to +80°C (dependant on conveyant).

**Note:** All pressures are based on a safety factor of 6:1



### Transfuel Hose

**RADCOFLEX**

**Application:** Transfuel is a suction and discharge hose mainly for the transfer of petroleum products by road, rail tankers and loading gantries.

**Construction:** Green outer cover with yellow or marked white stripe; inner and outer wires are galvanised mild steel.

**Classification:** Fuel & Oil Group 1 Hose

**Manufacture:** Complies with EN 13765 Type 2. A group 1 hose where electrical continuity is maintained by both hose wires being securely connected to the fittings. The hose contains a barrier layer for 100% aromatic hydrocarbons.

**Temperature range:** -30°C to +80°C (dependant on conveyant).

**Note:** All pressures are based on a safety factor of 4:1



Nominal Bore mm	Outside Dia. mm	Working Pressure Bar	Bend Radius mm	Weight kg/m	Max. Lengths	Part Number
▶ 25	32	7	50	1.00	20	05558463
▶ 38	50	7	75	1.40	20	05558497
▶ 50	61	7	80	1.70	20	05558514
▶ 63	76	7	90	2.60	20	05558531
▶ 75	88	7	125	3.10	20	05558548
▶ 100	112	7	220	4.10	20	05558565

Colour	I/D mm	O/D mm	WP Bar	B/R mm	Kg/m	Part Number
▶ Blue	100	112	4	200	2.80	07847309
▶ Orange	100	112	4	200	2.80	07847343
▶ Green	100	112	4	200	2.80	07847326
▶ Yellow	100	112	4	200	2.80	05643072

### RADCOFLEX COMPOSITE HOSE

Composite hoses are manufactured on the **RADCOFLEX** mandrel wrapped principle. The hose consists of an inner wire spiral upon which layers of fabric and film are wrapped, and bound with an external wire spiral. The tension between each other of the wire spirals gives the hose its pressure capability. The heart of a composite hose is in the materials selection. Fabric and film materials used include polypropylene, polyester and polyamide. The wire helices can be of galvanised steel, aluminium, stainless steel or polypropylene coated steel.

Composite hoses are classified under a group number which refers to their chemical resistance suitability. For confirmation of the suitability of any composite hoses please refer to our Technical Department for advice.

**KEY:** ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## Transchem Hose

**RADCOFLEX**

**Application:** Transchem is suitable for the transfer of acids and alkalines.

**Construction:** Grey outer cover with red or marked white stripe. The hose is made from polypropylene fabrics and films with an abrasion resistant PVC coated fabric cover. Inner wire of polypropylene coated steel wire and an outer wire of galvanised mild steel.

**Classification:** Chemical Group 2 Hose

**Manufacture:** Complies with EN 13765 Type 3.

**Temperature Range:** -30°C to +90°C (depending on the conveyant).



Nominal Bore mm	Outside Dia. mm	Working Pressure Bar	Bend Radius mm	Weight kg/m	Max. Lengths	Part Number
▶ 38	64	10	160	1.8	20	01064275
▶ 50	82	10	180	2.6	20	00823905
▶ 75	92	10	220	3.0	20	00824041
▶ 100	120	10	350	5.4	20	00824109

## Solchem-S Hose

**RADCOFLEX**

**Application:** Solchem-S is suitable for the transfer of various acids and alkalines where the conveyant may be corrosive to a galvanised inner wire. Electrical continuity is maintained by both hose wires being securely connected to the fittings.

**Construction:** Orange outer cover with blue or marked white stripe. Both wires are stainless steel 316.

**Classification:** Chemical Group 3 Hose

**Manufacture:** Complies with EN 13765 Type 3.

**Temperature range:** -30°C to +80°C (dependant on conveyant).

**Note:** All pressures are based on a safety factor of 4:1



Nominal Bore mm	Outside Dia. mm	Working Pressure Bar	Bend Radius mm	Weight kg/m	Max. Lengths	Part Number
▶ 25	38	10	90	1.0	20	05923011
▶ 38	52	10	120	1.6	20	05923028
▶ 50	64	10	150	2.0	20	05558429
▶ 75	92	10	210	3.2	20	05558446
▶ 100	120	10	340	6.0	20	06323429

Other sizes from 25mm – 200mm available on request

## Hi-Temp – 200 Composite Hose

**RADCOFLEX**

**Application:** Ideal for transfer of hot viscous petroleum byproducts such as tar and bitumen.

**Manufacture:** Complies with EN-13765 Type 4 hose, Electrical continuity is maintained by both hose wires being securely connected to fittings. Available in 20 metre lengths

**Temperature Range:** from -30°C to +200°C



Nominal Bore mm	Outside Dia. mm	Bend Radius mm	Press PSI	Nominal Bar	Weight kg/m	Part Number
▶ 75	96	300	225	15.0	4.8	04103314

## CARE & MAINTENANCE OF COMPOSITE HOSE

**RADCOFLEX**

### Installing

Incorrect installation of a hose assembly will create stresses within the assembly and result in a premature failure.

The following guidelines should be followed:

- Hose assemblies must not be twisted either during installation or in use
- Hoses must not be over flexed or bent into a smaller diameter than the specified minimum bend radius
- Hose assemblies should be installed so that flexing always occurs in the same plane
- Flanged assemblies should have a floating flange on one end for easier installation and to reduce the possibility of twist

### Handling

Hoses should be stored in a straight line on solid supports or racks with a wide belt sling which supports the hose at least every 3 meters. Hoses must not be supported by a single rope or wire.

Avoid curvatures that are less than the minimum bend radius of hose and do not allow sharp bends adjacent to the end connection fitting – this area is the weakest spot in any type of hose. Hoses should not be dragged along the ground or over guard rails and do not allow the hose to chafe (rub) against hard surfaces and/or sharp edges. If unavoidable, consider having the hoses rope lagged.

### Cleaning

Before storage, hoses should be drained and flushed with water to remove dangerous vapours. The exception being hoses which have been used for conveyants such as sulphuric acid when dilution with water could leave a corrosive residue. In such instances, drain dry.

Hoses must be electrically earthed during cleaning aerations and may be cleaned using low pressure air, however they must be open-ended to avoid excessive pressure build up. Steam is not recommended for cleaning as the excessive temperature involved (over 100° C) will damage the hose fabrics.

### Inspection

Inspect hose for visual damage at least every six months, more often if experience demands it. Look for:

- Weakening of the hose adjacent to the end fitting
- Cuts and abrasions on the fabric cover
- Abrasion of the outer wire
- Displacement of the outer wire – identified by differing widths between each round of wire over the length
- Dents, kinks or twisted sections

### Testing

Composite hose assemblies should be hydro-statically tested at least once every twelve months and electrical continuity tested, where applicable, at least once every six months.

## STAINLESS STEEL HOSE

### PARCOR STAINLESS STEEL HOSE & BRAID

Hose & Braid is a corrugated flexible metallic hose with standard pitch annular corrugations, hydroformed from butt welded precision tube. The depth and shape of the corrugation provides good flexibility and cycle life.

For pressure applications, one or two layers of metallic wire braid is applied directly to the hose, using a close weave braid at the optimum angle. Parcor is manufactured in accordance with ISO10380 Type 1 – Corrugated Metal Hose of High Flexibility.

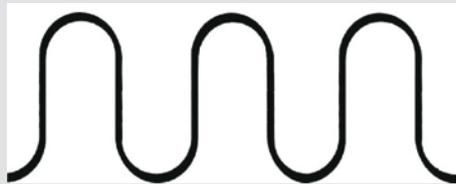
Hose and Braid are both manufactured from stainless steel AISI304, DIN1.4301, AFNOR Z7CN18.09. Radcoflex uses prime austenitic cold formed stainless steel materials.

The bend radius is measured from the centre line of the hose to the mid point of the bend circle when flexed under nominal conditions (i.e. at ambient temperature).

When flexing a corrugated hose, the corrugations on the outside of the radius are expanded whilst those on the inside are compressed. The theoretical minimum bend radius is reached when the corrugations on the inside of the radius are touching, but this point may not be reached due to other factors such as the restriction of the external wire braiding or other protection devices.

Static bend radius is the bend radius when the hose is stationary under nominal conditions. Dynamic bend radius is the bend radius when the hose is in motion or flexing under nominal conditions.

Note: The bend radius is not necessarily related to the suppleness or flexibility of the hose. Flexibility increases with higher corrugations and closer pitches (i.e. distance between the crown or top of each corrugation). A reduction in wall thickness will also increase flexibility but normally at the expense of a reduced pressure capability. The hose bend radius specifications in the data sheets are the recommended minimum bend radii, and have been tested and listed in accordance with ISO 10380 nominated measurements – in general Radcoflex hoses perform better than listed.



When planning piping systems, the pressure loss of the medium conveyed is an important consideration, in addition to the hose's pressure capability and flexibility. At equal flow rates the pressure loss in metal hoses is higher than in rigid piping. This is caused by the corrugations in the wall of the hose which create increased wall friction and eddies within the corrugations. Roughly it can be assumed that the pressure loss in corrugated hose is 100% higher than in new welded steel pipe.

**RADCOFLEX**

This means that in the case of corrugated hoses an increase in the hose diameter of 15% is sufficient to reduce the pressure loss to the same value as new welded steel pipe. Pressure fluctuations have a marked effect on the service of metal hoses. Pulsating pressures reduce the capability to between 60% – 80%, whilst shock pressure loads (surges) would generally reduce it to between 40% – 60% of the nominal working pressure.

The service life depends on many factors including the operating pressure, operating temperature, bend radius, correct installation, rapid pressure fluctuation, frequency and type of movements, corrosive medium or atmosphere.



#### Technical Data

Nominal Inside Dia. mm	Number of Braids	Nominal Outside Dia. mm	Nominal Working Pressure (bar)	Min. Burst Pressure (bar)	Bend Radius Static mm	Radius Dynamic mm	Min. Required Live Length mm	Weight kg/m
10	0	16.2	17	–	16	150	50	<b>0.11</b>
10	1	17.8	100	400	38	150	50	<b>0.30</b>
10	2	19.4	150	620	–	150	50	<b>0.50</b>
12	0	18.6	11	–	24	165	50	<b>0.12</b>
12	1	20.2	80	320	45	165	50	<b>0.32</b>
12	2	21.8	140	560	–	165	50	<b>0.53</b>
20	0	29.0	6	–	35	225	63	<b>0.27</b>
20	1	30.6	60	240	70	225	63	<b>0.57</b>
20	2	32.2	100	400	–	225	63	<b>0.88</b>
25	0	35.5	5	–	42	260	70	<b>0.36</b>
25	1	37.3	50	200	85	260	70	<b>0.75</b>
25	2	39.2	80	320	–	260	70	<b>1.15</b>
32	0	44.0	4	–	51	300	120	<b>0.46</b>
32	1	46.5	45	180	105	300	120	<b>1.07</b>
32	2	49.0	75	300	–	300	120	<b>1.70</b>

Continued

KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

continued

Nominal Inside Dia. mm	Number of Braids	Nominal Outside Dia. mm	Nominal Working Pressure (bar)	Min. Burst Pressure (bar)	Bend Radius Static mm	Radius Dynamic mm	Min. Required Live Length mm	Weight kg/m
40	0	52.0	3	-	61	340	120	0.65
40	1	54.5	40	160	130	340	120	1.47
40	2	57.0	65	260	-	340	120	2.30
50	0	65.0	2	-	73	390	144	0.80
50	1	67.5	30	120	160	390	144	2.00
50	2	70.0	50	200	-	390	144	3.30
65	0	81.0	1.5	-	90	460	195	1.20
65	1	83.5	25	100	200	460	195	2.70
65	2	85.5	40	160	-	460	195	4.20
80	0	100	1.3	-	108	520	213	1.85
80	1	103	20.0	80	240	520	213	3.60
80	2	106	33.0	135	-	520	213	5.40
100	0	127	1.0	-	126	600	245	2.50
100	1	130	15.0	60	290	600	245	5.10
100	2	133	26.0	105	-	600	245	7.80
125	0	152	0.8	-	150	850	330	3.60
125	1	155	12.0	48	340	850	330	6.80
125	2	158	18.0	72	-	850	330	10.00
150	0	174	0.7	-	170	1050	395	4.70
150	1	177	10.0	40	400	1050	395	8.40
150	2	180	15.0	60	-	1050	395	12.10
200	0	230	0.4	-	-	1100	530	6.30
200	1	234	8.0	32	600	1100	530	11.30
200	2	238	12.0	48	-	1100	530	16.50

## Operating Temperature

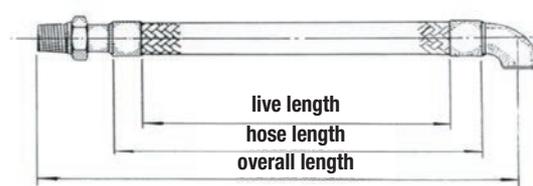
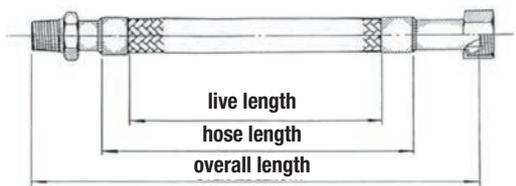
**RADCOFLEX**

The operating temperature will have a direct relationship on the lowering of the pressure capability of the hose illustrated in the table below:

Temp °C	Correction Factor						
-200	1.00	150	0.73	400	0.50	650	0.19
-100	1.00	200	0.65	450	0.49	700	0.10
20	1.00	250	0.61	500	0.47	750	0.04
50	0.91	300	0.56	550	0.46	-	-
100	0.81	350	0.53	600	0.31	-	-

When ordering Stainless Steel Hose and Braid as custom assemblies it is essential that all relevant information is clearly defined prior to our factory staff commencing fabrication and welding. Amongst the commonly requested weld on ends are Male Threaded, Female Threaded Swivel Connections, Fixed Flanges, Floating Flanges, Tube or Pipe Ends – it is vital that these are specified correctly and material grades and sizes are confirmed and approved.

When ordering a hose assembly "always" quote the Overall Length. Do not try to calculate what the free length of hose and braid are as our factory staff are well trained in this procedure. The Overall Length is the length from the outer measurement of the end fitting to the outer measurement of the opposite end fitting; this is also often referred to as the "face to face" measurement.



There are many configurations available for further technical advice please contact either our Hose Specialists or Hose Manufacturing team at [hoseandflow@nzafetyblackwoods.co.nz](mailto:hoseandflow@nzafetyblackwoods.co.nz).

## FLEXIBLE DUCTING

### TPR Flexible Ducting (Elastoflex)

**hml**

**Application:** Suction of gases, Fumes, hot air transfer. UV and ozone resistance.

**Material:** Santoprene TPE.

**Colour:** Black, but customer specific colours can be done.

**Temperature Range:** 0°C to +125°C.



Nominal Bore mm	WP Bar	Vacuum Bar	Kg/m	Part Number
51	0.23	0.22	0.29	05890167
64	0.19	0.17	0.34	05890184
76	0.18	0.12	0.4	05890201
89	0.16	0.1	0.49	05890218
102	0.15	0.08	0.5	05890235
114	0.12	0.07	0.59	05890252
127	0.095	0.06	0.65	05890269
152	0.09	0.5	0.66	05890286
176	0.07	0.03	0.77	05890303
203	0.06	0.03	1.0	05890320
229	0.04	0.02	1.2	05890337
254	0.03	0.02	1.22	05890354

\*Sizes from 25mm – 610 available.

# FLEXIBLE DUCTING

## Silverflex Flexible Ducting

PLASTICOAT

Silverflex is manufactured with a helically formed internal crimped galvanised steel strip. The material is a polyester which is coated with a neoprene rubber and easy to install ducting.

Temperature Range: 0°C to +120°C.



Nominal Inside Dia. mm	Min. Bend Radius mm	Max. Lengths m	Part Number
● 51	102	10	05918812
▶ 76	152	10	05918829
▶ 102	204	10	05918846
▶ 127	254	10	05918863
▶ 152	304	10	05918880
● 178	356	10	05646455
▶ 203	406	10	05918897
● 229	458	10	05918931
▶ 305	610	5	05646472

## Multiflex Flexible Ducting (Liteflex)

hml

Multiflex is a lightweight, convoluted, highly flexible ducting able to be positioned in very limited spaces with little reduction in the cross sectional area. Coloured black and suitable.

Temperature Range: 0°C to +50°C.



Nominal Inside Dia. mm	Min. Bend Radius mm	Max. Lengths m	Part Number
▶ 32	32	10	05918659
▶ 38	38	10	05918676
▶ 44	44	10	05918693
▶ 51	51	10	05918710
▶ 57	57	10	05918727
▶ 64	64	10	05918744
▶ 76	76	10	05918761
▶ 89	89	10	05918778
▶ 102	102	10	05918795

## Blower Duct Flexible Ducting

PLASTICOAT

Made to order product and is a lightweight extremely compactable flexible duct. Constructed generally with a PVC coated reinforced material with an external vinyl wear strip. Ideal for portable ventilation units to service man holes, tanks etc. Coloured yellow with black spiral, this duct is often fitted with customer requested eyelets to facilitate installation and service. Can also be manufactured with FRAS qualities – please contact our Hose Specialists for further details.



## PU Anti-Static Flexible Ducting (Uraflex AS)

hml

Application: Paint spray booths, adhesive manufacturing plants, wood work factories, or in any high dust or volatile area.

Material: Natural Polyurethane antistatic.

Temperature Range: 0°C to +90°C.



Dia. mm	Poly Light	Poly Medium	Poly Heavy
25	● 02091807		
32	● 02091824	● 02092215	● 02092589
38	● 02091841	▶ 02092232	● 02092606
51	● 02091858	▶ 02092249	● 02092623
64	● 02091875	▶ 02092266	● 02092640
76	● 02091892	▶ 02092283	● 02092657
80	● 02091909	▶ 02092300	● 02092674
89	● 02091926	▶ 02092317	● 02092691
102	▶ 02091943	▶ 02092334	● 02092708
110	▶ 02091960	● 02092351	● 02092725
120	● 02091977	● 02092368	● 02092742
127	● 02091994	▶ 02092385	● 02092759
140	● 02092011	● 02092402	● 02092776
152	● 02092028	▶ 02092419	▶ 02092793
160	● 02092045	● 02092436	● 02092810
180	● 02092062	▶ 02092453	● 02092827
203	● 02092079	▶ 02092470	● 02092844
230	● 02092096	● 02092487	● 02092861
254	● 02092113	▶ 02092504	● 02092878
280	● 02092130	● 02092521	● 02092895
305	● 02092147	▶ 02092538	● 02092912
356	● 02092164	● 02092555	● 02092929
406	● 02092181	● 02092572	● 02092946
509	● 02092198	● 02092487	● 02092861

Addition sizes available on request.

## Food Grade Flex

hml

Application: Ideal for suction and conveyance of abrasive dust, powders and food products. Good mineral oil resistance, Microbial resistance, Hydrolytic stability. Suitable for CIP procedures.

Material: Ether -Polyurethane, FDA approved for food contact, 316 stainless steel wire. Tight bend radius, extremely flexible, very light weight, high mechanical strength and highly compressible.

Temperature Range: -30°C to +90°C.



Diameter mm	Part Number	Diameter mm	Part Number
▶ 38	02092963	● 127	02093065
● 51	02092980	● 152	02093082
● 64	02092997	● 180	02093099
● 76	02093014	● 203	02093116
● 89	02093031	● 254	02093133
● 102	02093048	● 305	02093150

\*Available in Medium and Heavy on request.

KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## PVC Flexible Ducting

**Application:** Dust & Fume has been thoroughly proven in a wide variety of applications. As FPVC it is light in weight and very flexible yet it retains excellent crush resistance. It has good UV and moisture resistance.

**Material:** Flexible PVC, UV resistant.

**Temperature Range:** 0°C to +40°C.

**hml**



Diameter mm	Part Number
● 51	02093167
● 64	02093184
● 76	02093201
● 89	02093218
▶ 102	02093235
● 127	02093252

Diameter mm	Part Number
● 152	02093269
● 203	02093286
▶ 254	02093490
● 305	02093320
● 406	02093337

\*Available in a multitude of size.

## POLY ANTISTATIC FLEXIBLE DUCTING

### PolyLight Antistatic

**Application:** Ideal for fumes, powders and fine sawdust etc. Excellent flexibility. Antistatic R<10 exp 8° Ohm – normally no need to ground wire. With our antistatic flex, the static charge flows through the material itself.

**Material:** Polyester Polyurethane  
Antistatic wall  
R= 10<sup>8</sup> OHM/abrasive resistant.

**Wall Thickness:** 0.4mm.

**Colour:** Clear with copper wire helix.

**Temperature Range:** -40°C to +100°C.

**Minimum Order:** 1 metre.

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Diameter mm	Part Number
● 25	01225231
● 32	01225265
▶ 40	01225299
● 52	01225316
● 63	01225333
● 76	01225350
● 82	01225367
● 102	01225401
● 127	01225418
● 152	01225452

Diameter mm	Part Number
● 160	06601175
● 180	01225469
● 203	01225486
● 229	01225503
● 254	01225520
● 279	01225537
● 305	01225554
● 356	01225571
● 406	01225588
● 506	01225622

## WHY BUY POLY?

### Better resistance to abrasion

The Poly range has better resistance to abrasion than PVC meaning it lasts longer. If there is any material passing through the flex as well as air, then Poly is a better choice as it will cope better with any abrasion.

The wide range of poly products (light/medium/heavy and extra heavy for specific industries) are available in sizes from 25mm to 500mm.

### Naturally Antistatic – No more shocks

All NZ Duct+Flex Antistatic Polyurethane products are naturally antistatic: the static flows through the wall material itself. Usually there is no need to earth the wire, just clamp the flex to the outlets with a normal hose clamp.

Tests have proven our flex is 3x more effective at dissipating the charge than other 'antistatic' products available.

Manufactured in Europe, NZ Duct+Flex Antistatic Flex is made to achieve R = <10<sup>8</sup> Ohm.

NZ Duct+Flex flexible ducting is from German manufacturer Schauenburg – Europe's leading hose manufacturer. Supplying the NZ market for over 25 years, they produce to the highest specifications.

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## Poly Medium Antistatic

**Application:** Ideal for light materials, paper, sawdust shavings. General transport of particles. Smooth bore. Antistatic R<10° Ohm – normally no need to ground wire. With our antistatic flex, the static charge flows through the material itself.

**Material:** Polyester Polyurethane  
antistatic/abrasive resistant.

**Wall Thickness:** 0.5mm<100mm,  
100mm and over 0.6mm.

**Colour:** Opaque with white coated wire helix.

**Temperature Range:** -40°C to +100°C.

**Minimum Order:** 1 metre.

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Diameter mm	Part Number
▶ 25	06601209
● 40	01225775
● 52	01225792
● 63	01225809
● 76	01225826
● 82	01225843
● 90	06601243
▶ 102	01225860
● 120	06001260
● 127	01225877
● 140	06601277

Diameter mm	Part Number
▶ 152	01225894
● 160	06601294
● 180	01225911
● 203	01225928
● 229	01225945
● 254	01225962
● 279	01225979
● 305	01225996
● 356	01226013
● 406	01226030

## Poly Heavy Antistatic

**Application:** Ideal for suction and transport of abrasive materials.

Transport of granules, wood chips and grain. Ideal for industrial sweepers and lawn mowers. Smooth bore. Antistatic R<10° Ohm – normally no need to ground wire. With our antistatic flex, the static charge flows through the material itself.

**Material:** Polyester Polyurethane.

**Wall Thickness:** <100mm 0.9mm  
100-203mm 1.1mm  
250mm and over 1.3mm.

**Colour:** Opaque with cream wire helix.

**Temperature Range:** -40°C to +100°C.

**Minimum Order:** 1 metre.

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Diameter mm	Part Number
▶ 40	02521379
● 52	02521413
● 63	02521447
● 76	02462593
● 82	01226387
▶ 102	01226404
● 127	01226421
● 140	06601345

Diameter mm	Part Number
▶ 152	01226438
● 180	01226472
● 203	01226489
● 229	01226625
● 254	01226659
● 305	01226761
● 356	01226812
● 406	01226846

## Poly Extra Heavy Antistatic

**Application:** Ideal for transport of air, fumes, wood chips, grain and other very abrasive materials. Good for transport under high vacuum pressure. Good resistance to oil and petrol. Smooth bore. Antistatic R<10° Ohm – normally no need to ground wire. With our antistatic flex, the static charge flows through the material itself.

**Material:** Polyester Polyurethane.

**Wall Thickness:** 1.4mm.

**Colour:** Opaque with green helix.

**Temperature Range:** -40°C to +100°C.

**Minimum Order:** 1 metre.

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Diameter mm	Part Number
● 40	06316119
● 100	06316170
● 150	06316187

## What's Going Through It?

For air with particles, use the Poly Antistatic Range for less build up of dust.

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# FLEXIBLE DUCTING

## CLEAR PVC FLEXIBLE DUCTING

### Clear Light Flex

**Application:** Ideal for suction of fumes, light fibres, air conditioning and ventilation, protecting cables in conduits. Excellent flexibility. Excellent compressibility.

**Material:** PVC.

**Wall Thickness:** 0.4mm.

**Colour:** Clear with wire helix.

**Temperature Range:** 0°C to +70°C.

**Min Order:** 1 metre.



Diameter mm	Part Number
● 25	06601362
● 32	06601379
● 40	01226047
● 52	01226064
● 63	01226081
● 76	01226098
● 82	01226115
▶ 102	01226149
● 127	01226166

Diameter mm	Part Number
● 152	01226183
● 180	01226200
● 203	01226217
● 254	01226251
● 305	01226285
● 356	01226302
● 406	01226319
● 457	01226336
● 508	01226370

### Clear Heavy PVC Flex

**Application:** Ideal for industrial vacuum cleaners, handling conduit and protection. Very versatile and solid construction. Smooth bore.

**Material:** PVC.

**Wall Thickness:** 0.8mm.

**Colour:** Clear with white coated wire helix.

**Temperature Range:** 0°C to +70°C.

**Min Order:** 1 metre.



Diameter mm	Part Number
● 40	06601430
● 52	06601464
● 63	06601481
● 76	06601498
● 102	06601532
● 110	06601549
● 127	06601566
● 152	06601583
● 180	06601600
● 203	06601617
● 254	06601634

### Food Grade Flex

**Application:** Ideal for suction and conveyance of food powders and products. **Material is FDA and EU approved for food use.** Resistant to microbes and hydrolysis. Non toxic. Non antistatic.

**Material:** Polyether Polyurethane.

**Wall Thickness:** <100mm 0.5mm  
100-203mm 0.6mm.

**Colour:** Clear with white coated wire helix.

**Temperature Range:** -40°C to +100°C.

**Min Order:** 1 metre.



Diameter mm	Part Number
● 25	03260378
● 32	03620395
▶ 40	03620412
● 52	03620429
● 63	03620446
▶ 76	03620463
● 82	03620497
● 102	03620514
● 127	03620531
● 152	03620548
● 203	03620565

## SPECIALISED FLEXIBLE DUCTING

### UV Chem Fume Flex

**Application:** Ideal for suction of chemical fumes and gases, air conditioning and vehicle construction. Very good resistance to acids, UV, ozone resistant and rot proofed. Withstands severe flexing.

**Material:** TPE coated Polyester.

**Wall Thickness:** 0.4mm.

**Colour:** Black.

**Temperature Range:** -60°C to +150°C.

**Min Order:** 1 metre.

Available in sizes 32-508mm ID.



### High Temperature Flex

**Application:** Ideal for suction of hot gases in all fields of industry, glass, plastic moulding, hot exhausts and engines. Light weight and very flexible. Good temperature, UV and ozone resistance. Flame retardant, excellent axial compressibility.

**Material:** Silicone coated glass fabric with external helix.

**Wall Thickness:** 0.4mm.

**Colour:** Silver with steel external helix.

**Temperature Range:** -60°C to +300°C.

**Min Order:** 1 metre.



Diameter mm	Part Number
● 52	03620225
● 63	03620242
● 76	02521481
● 102	02521515

Diameter mm	Part Number
● 127	02521549
● 152	02521583
● 203	02521668
● 254	02521736

### Garage Flex

**Application:** Ideal for suction of exhaust gases. Excellent chemical resistance especially against oil and petrol fumes. Crush recoverable. Ideal for over the floor applications with reel systems.

**Material:** TPE coated Polyester, Helix PA6.6 heat stabilised

**Wall Thickness:** 0.4mm

**Colour:** Black with black wear strip i.e. no metal wire

**Temperature Range:** -40°C to +150°C

**Min Order:** 1 metre

Available in sizes 75, 102 and 152mm ID.



**The Minimum Order Quantity**  
on our flex range is just 1 Metre.



**KEY:** ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## Duct Telescopic

Duct Telescopic available in galvanised, complete duct run gaps 40-450mm: One end includes the 5mm lip to join to the continuing LIPLock® component, the other end is slightly tapered to slide the appropriate distance in the duct run, so you can 'fill the gap'.

- Supplied with specially profiled rubber sealed Lever Lock to clamp DTS at required distance
- Can be undone and adjusted repeatedly
- Eliminates cutting and welding
- Thickness 0.75 – DTS300mm (DTS400 0.9mm)

### To install:

- Simply slip the smooth end of the telescopic inside the downwind section of the duct run
- Slide the telescopic back up so it meets the 'Upwind' section and connect with appropriate connector
- Use the Lever Lock provided to 'lock' the Telescopic in position

**NOTE:** When ordering a DTS, you will receive 1x 500mm duct (flanged at one end) and ONE especially profiled Lever Lock



Diameter mm	Galvanised
80	06591213
100	06591230
125	06591247
140	06591264
150	06591281
160	06591298
180	06591315
200	06591332

Diameter mm	Galvanised
250	06591366
275	06591383
300	06591400
350	06591451
400	06591485
450	06591519
500	06591553

Other sizes available on request.

## MODULAR DUCTING

### Modular Ducting – Straights

Standard lengths are available in 0.5, 1 and 2m lengths.

If you need an unusual length or you just don't know what the final distance will be – don't cut and waste a length – use a Duct Telescopic – available for galvanised only. See above. Smoother than spiral, LIPLock® modular ducting, with its connector range does not leak, and is not prone to water ingress.

#### Galvanised 1mm

Finely galvanised Swedish steel for long lasting performance against rust.

#### Powder Coated 2mm Steel

Manufactured from steel then powdercoated – very robust and wear resistant – suitable for carrying abrasive particles. Saw mills, cement powder, grain applications or where high vacuum is required.

#### Stainless AISI 304

All available as lock formed and some as laser welded which have no seam to trap particles therefore ideal for food applications.



Ø mm	Galvanised			2mm Powder Coated		Stainless Steel	
	0.5m	1.0m	2.0m	1.0m	2.0m	1.0m	2.0m
80	06589054	06589411	06316816				
100	06316459	06316476	06316493	06594664	06594970	06586130	06586368
125	06316527	06316544	06316561	06594681	06595004		
140	06589071	06589428	06316833				
150	06316578	06316595	06316612	06594698	06595140	06586164	06586402
160	06589088	06589445	06316629				
180	06589105	06589462	06316646	06594715	06595259		
200	06316663	06316680	06316697	06594732	06595293	06586198	06586436
225	06589122	06589479	06316714	06597928	06598370		
250	06589139	06316731	06316748	06594766	06595327	06586232	06586470
275	06589156	06589496	06316765				
300	06589173	06589513	06316782	06594800	06595361	06596249	06586487
350	06589224	06589581	06316799	06594868	06595395	06586266	06586504
400	06589258	06589615	06526613	06594885	06595412	06586283	06586521

## MODULAR DUCTING? SAVES TIME & COST

The complete LIPLock® metal ducting system is available from one manufacturer and is the ideal ducting solution for most industries

- Each LIPLock® duct component has a 5mm flange for fast connection and subsequent inspection
- Separate components are easier to transport and install compared to longer lengths and can be switched about and rearranged very easily if a factory layout or design changes
- Made to last, the LIPLock® galvanised 1mm system is made out of Swedish steel, galvanised at source for better resistance to rusting, compared to cheaper spangled type galv
- The components of the heavy 2mm pre-painted steel is surface treated in a state of the art automatic powder coating plant, ensuring uniform high quality for an impact and scratch resistant surface
- The stainless steel LIPLock® system is manufactured in AISI 304 stainless steel with unique stainless pressed bends in most sizes. The stainless duct is LASER WELDED, removing the 'particle traps' possible in folded stainless ducting



# MODULAR DUCTING

## Modular Ducting – Bends

### Smooth Pressed Bends

Offer the advantage of better airflow and less turbulence than segmented bends – this reduced wear from abrasion means they last longer than segmented bends. All bends can be connected easily with our standard locks or lever locks, 15° and 7.5° are readily available; other sizes above 400mm are available on request.

### 1mm Galvanised

Our bends are manufactured from the same finely galvanised steel as our straights for long lasting performance against rust. 15° and 7.5° are also available in galvanised. POA.

Ø mm	90°	60°	45°	30°
80	● 06314963	● 06526579	● 06590499	● 06590822
100	● 06314980	● 06314997	● 06315014	● 06590839
125	● 06315031	● 06315048	● 06590856	
140	● 06315133	● 06590179	● 06590533	● 06590873
150	● 06315150	● 06315167	● 06315184	● 06526511
160	● 06315218	● 06590193	● 06590550	● 06590890
180	▶ 06315235	● 06590210		● 06590907
200	● 06315252	● 06315337	● 06526528	● 06590924
225	▶ 06589955	● 06590227	● 06590584	● 06590941
250	● 06315286	● 06590244	● 06526545	● 06590958
275	● 06589972	● 06590261	● 06590601	● 06590975
300	● 06315354	● 06590278	● 06590618	● 06590992
350	● 06526562	● 06590346	● 06590669	● 06591043
400	● 06590057	● 06590380	● 06590703	● 06591077

### Segmented Bends

Bends above 400mm diameter (galvanized) are available as segmented bends from stock. While the airflow will not be quite as efficient or smooth, at these larger diameters it is not as critical.

### 2mm Powdercoated Steel Bends

Can be mixed with our standard duct if required especially for those problem bends.



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Ø mm	90°	45°	30°
100	● 06595514	● 06596330	● 06596942
125	● 06595548	● 06596347	● 06596976
150	● 06595565	● 06596364	● 06597061
180	● 06595582	● 06596381	● 06597078
200	● 06595599	● 06596398	● 06597095
225	● 06595616	● 06596415	● 06597112
250	● 06595633	● 06596432	● 06597146
275	● 06595735	● 06596449	● 06597163
300	● 06595667	● 06596466	● 06597180
350	● 06595803	● 06596517	● 06597231

### Stainless Steel

Ideal for the food industry as can be quickly taken apart for inspection/cleaning.



Ø mm	90°	60°	45°
100	● 06586606	● 06586776	● 06586946
150	● 06586640	● 06586810	● 06586980
200	● 06586691	● 06586844	● 06587031
250	● 06586725	● 06586878	● 06587082
300	● 06586742	● 06586895	● 06587099
350	P.O.A.	P.O.A.	P.O.A.
400	P.O.A.	P.O.A.	P.O.A.

## CONNECTORS

The LIPLOCK® Modular ducting system can easily be connected at installation with the range of connectors below and easily un-locked for inspection, cleaning, or re-use in a new duct layout if machines have changed position.

### Standard Locks

Low cost and slim to aid fitting, 2 semi circular halves simply bolt together.(with bolts and nuts included).

- Slim fitting electro galvanised (zinc plated)
- As they tighten, these pull the lips of the duct together to form a 99% air tight seal
- For complete seal, use rubber gasket rings (Duct End Seals)

### Lever Locks

Are ideal if a section of duct will be taken part regularly for inspection or cleaning or maybe the connectors for a 'problem' bend would be easier and quicker to undo if a Lever Lock rather than a standard lock is used. Lever Locks are fitted with a rubber seal for more support and to ensure an airtight seal.

### Wide Locks

Use Wide Locks for larger duct diameters, as when the diameters increase, so does the weight of the duct run. Wide Locks help give more support due to their width, either side of the join. We recommend use of Wide Locks rather than Standard Locks for diameters over 200mm – especially for a horizontal duct run. Supplied with bolt and nut required.

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## Connectors



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Ø mm	Galvanised Standard	Galvanised Lever	Wide Lock	Heavy Standard	Heavy Lever	S/S Standard	S/S Lever
80	● 06316102	● 06315881					
100	▶ 06315899	▶ 06315694		● 06526732	● 06599985	● 06587133	● 06587422
125	● 06315915	● 06315711		● 06315660	● 06600002		
140	● 06315932	● 06526681					
150	● 06315949	● 06315728		● 06315677	● 06600019	● 06587201	● 06587456
160	● 06315966	● 06315762					
180	● 06315983	● 06315779		● 06599696	● 06600036		
200	▶ 06316000	▶ 06315796	● 06316850	● 06526749	● 06600053	● 06587269	● 06587490
225	● 06316017	● 06315813	● 06587235	● 06587473			
250	● 06316034	● 06315830	● 06316867	● 06599764	● 06600087	● 06587337	● 06587524
275	● 06316051	● 06591672	● 06587303		● 06587507		
300	● 06316068	● 06315847	● 06316901	● 06526766	● 06600138		
350	▶ 06316085	● 06315864	● 06316918	● 06599832	● 06600206		
400	● 06526698	● 06603997	● 06316935	● 06601056	● 06600223		

KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

REDUCING CONES

Reducing Cones are an easy way to change or step up/down the duct run to meet an outlet for a machine, fan or end the duct run with a suitable diameter for flex. The most efficient airflow systems rely on minimum turbulence; therefore avoid reducing the duct diameter abruptly.

The LIPLOCK® system includes Reducing Cones for common sizes to keep the air moving smoothly. Made from galvanised Swedish steel, LIPLOCK® robust Reducing Cones are 0.9mm thick. Common sizes available as below but other sizes available on request.



Reducing Cones



Diameter mm	Galvanised	Stainless Steel
100-80	▶ 06592216	● 06587711
125-80	● 06592250	● 06587728
125-100	● 06592233	● 06587762
150-100	▶ 06592267	● 06587779
150-125	● 06592284	● 06587847
180-150	▶ 06592318	● 06587915
200-150	● 06592335	● 06587932

Other sizes available on request.

BLAST GATES

Blastgates are designed to close off the airflow from one duct at a time, allowing the remaining duct system to get the benefit of the increased suction available.

- Manual Blastgates are closed by hand.
- Pneumatic Blastgates are connected to the machine ON/OFF switch.

Manual Blastgates use a 2mm plate (damper) and are made from 1.25-1.50mm galvanised sheetmetal depending on dia.

Pneumatic Blastgates use 1.5-2.5mm galvanised sheetmetal and the damper plate is 2-3mm depending on dia. The damper plate slides in the polyether and PEHD gaskets to ensure optimum tightness.



Blast Gates



Diameter mm	Manual	Pneumatic
80	● 06592794	● 06593406
100	● 06314912	● 06593423
125	● 06526596	● 06593440
140	● 06592811	
150	● 06592828	● 06593457
160	● 06592845	
180	● 06592862	
200	● 06592879	● 06593474
225	● 06592896	
250	● 06592913	● 06593525

TUBING - PVC NON TOXIC

Clear PVC Non Toxic Tubing



**Application:** Clear PVC Non Toxic Tubing is made from PVC compounds which meet the requirements of AS2070. Smooth bore and flexible it provides users with the ability to see the product being conveyed clearly. Suitable for food and beverage fluids, and medical drainage applications where there is negligible pressure.



Nominal Bore mm	Nominal Wall Thickness mm	Max. Lengths m	Part Number
3.0	0.9	30	05645435
4.0	0.9	30	05645452
4.8	0.9	30	05645469
5.5	1.2	30	05645486
6.4	1.6	30	05645503
8.0	1.4	30	05645537
9.5	1.8	30	05645554
11.0	2.0	30	05645571
13.0	2.0	30	05645605
16.0	2.0	30	05645622
19.0	2.4	30	05645639
25.0	3.0	30	05645656
▶ 32.0	4.2	30	05645673
▶ 38.0	4.2	30	05645690
▶ 50.0	4.2	30	05645707

White PVC Non Toxic Tubing



**Application:** White PVC Non Toxic Tubing is made from PVC compounds which meet the requirements of AS2070. Smooth bore and flexible it provides users with a tubing product which was designed originally for the leisure industry where a non clear product inhibits algae growth.



Nominal Bore mm	Nominal Wall Thickness mm	Max. Lengths m	Part Number
▶ 13	2.0	100	05645741
▶ 25	3.0	100	05645758

POLYVINYL CHLORIDE

Polyvinyl Chloride, more commonly known as PVC or just vinyl, has been in widespread usage since the early-mid 20th century.

PVC is strong, resistant to oil and chemicals, sunlight, weathering and flame resistant. It's everywhere around us. PVC is an incredibly versatile material use in packaging, construction materials, piping, wire coatings, and more.

## NYLON TUBING

### Nylon Tubing

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

Not suitable for vehicle brake systems. Maximum coil lengths of 100 metres.



#### Metric Sizes

Outside Dia. mm	Nominal Wall Thickness mm	Max. WP Bar	Part Number Natural	Part Number Black
4	0.65	68	▶ 00001071 ▶	06825337
5	0.85	68	▶ 05645792 ▶	00890545
6	1.00	68	▶ 00097852 ▶	00890562
8	1.40	68	▶ 00098600 ▶	00890579
10	1.70	68	▶ 00099212 ▶	00619514
12	2.00	68	▶ 00101252 ▶	04891179

#### Imperial Sizes

Outside Dia. mm	Nominal Wall Thickness mm	Max. WP Bar	Part Number Natural	Part Number Black
1/8"	0.019"	68	▶ 03895801 ●	05257460
3/16"	0.031"	68	▶ 04190301 ●	04463805
1/4"	0.040"	68	▶ 04190408 ▶	04463902
5/16"	0.049"	68	▶ 04190505 ●	04464008
3/8"	0.058"	68	▶ 04190602 ▶	04464105
1/2"	0.076"	68	▶ 04190709 ▶	04464202
5/8"	0.065"	68	● 03528799	
3/4"	0.080"	68	● 0000969	

## CLAMPS & CLIPS - HOSE

### Worm Drive Hose Clamps – Part & Full Stainless Steel



- Improved asymmetric housing – even distribution of forces and safe assembly
- Screw support – ease of assembly due to the safe guidance of the emerging band end
- Material and clamping range stamped on the band: prevention of errors and improved efficiency
- Smooth or stamped inside of band – optimal hose protection
- Safety collar – prevent screwdriver slip injuries

#### Part Stainless Steel

- W2 Material grade: band and housing
- Stainless steel (1.40 16/AISI430)
- Screw: mild stainless steel zinc plated and clear chromate

#### Full Stainless Steel

- W4 Material grade: band and housing
- Stainless steel throughout (1.4301/AISI 304)



Part Stainless

Full Stainless

Ind No.	Hose OD Min mm	Hose OD Max. mm	Part Stainless Steel	Full Stainless Steel
000	9.5	12	▶ 04299707	▶ 04385705
M00	11	16	■ 04157807	■ 04159708
00	13	20	■ 04157904	■ 04159805
0A	16	24	▶ 00367352	▶ 00979462
0	16	27	■ 04158000	■ 04159902
1A	22	32	■ 04158204	■ 00979598
1	22	38	■ 04158107	■ 04160001
1X	30	42	■ 04158301	■ 04160807
2A	35	48	■ 05218655	■ 00979615
2	35	53	▶ 04158408	▶ 04160108
2X	40	57	■ 04158505	■ 09768819
3	52	70	■ 04158602	■ 04160205
4	65	90	■ 04158709	■ 04160302
5	85	110	■ 04158806	■ 04160409
6	105	130	■ 04158903	■ 04160506
7	130	155	■ 04159009	■ 04160603
8	155	180	■ 04159106	■ 04160700
9	180	205	▶ 04159203	▶ 04161107
10	205	230	▶ 04159300	▶ 04161204
11	230	255	▶ 04159407	▶ 04161301
12	255	280	▶ 04159504	▶ 04161408
13	280	305	▶ 04159601	▶ 04161505

Standard pack: 10

## CUSTOM HOSES ASSEMBLY

### Custom hose assembly to suit your requirements

We stock and custom build a comprehensive range of hoses assemblies tailored to suit a diverse range of industries. Our assembly capacity includes crimping, wire whipping, fitting to a band, and welding a vast selection of fittings, including camlocks, hosetails, flanges and sanitary fittings.

#### Rubber

Used for applications such as product transfer ween tanks, vessels and trucks, as well as chemical and washdown processes.



#### PVC

Used for product transfer, especially applications that require visibility of product through the hose.

#### Composite

Used to transfer caustic and acidic chemicals, and for tallow, fat and oil products.

#### Braided stainless

Used for high temperature applications such as steam operations.



For more information contact our specialists on [hoseandflow@nz safetyblackwoods.co.nz](mailto:hoseandflow@nz safetyblackwoods.co.nz)

KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## T-Bolt Heavy Duty Hose Clamps – Part Stainless & Full Stainless Steel



- Specially designed bolt with integrated spacer improving performance
- Reinforced band loops – ability to withstand much higher torques
- Mechanically locked closure – no welding spots and no contact corrosion
- Robust band with rounded edges prevents injuries and damage to hoses
- Hollow turnions reduces the tensile forces on the bolt and the mechanical lock

### Part Stainless Steel

- W2 Material Grade:
- Band and housing: stainless steel 1.4016/AISI 430
- Screw: mild steel zinc plated and clear chromate

### Full Stainless Steel

- W4 Material grade band screw and housing
- Stainless steel throughout (1.4301 /AISI 304)



Hose OD Min mm	Hose OD Max. mm	Band Width mm		Part Stainless Steel	Full Stainless Steel
17	19	18	■	03833614	00979479
18	20	18	■	01291293	01291752
20	22	18	▶	03834817	00979496
21	23	18	■	01291361	01291769
23	25	18	■	03835117	00979513
24	26	18	▶	01291378	01291786
26	28	18	▶	03835418	00979530
27	29	18	■	01291412	01291803
29	31	20	■	03835816	00979547
30	33	20	▶	01291429	01291820
32	35	20	▶	03836019	00588489
34	37	20	■	01291446	01291837
36	39	20	■	03836310	00979564
38	41	20	▶	01291463	01291854
40	43	20	■	03836718	00979581
42	45	20	▶	01291480	01291871
44	47	20	■	03836815	00263840
46	49	20	▶	01291497	01291888
48	51	20	■	03837018	00263857
50	53	20	▶	01291514	01291905
52	55	20	■	03837115	00263874
54	57	20	▶	01291531	01291922
56	59	20	■	03837319	00263891
58	61	20	▶	01291548	01291939
60	63	20	■	03837416	00263908
62	65	20	▶	01291565	01291956
64	67	24	■	03837610	00982114
66	70	24	▶	01291582	01291973
68	73	24	■	03838017	00263925
71	76	24	▶	01291599	01291990
74	79	24	■	03838619	00263942
77	82	24	▶	01291616	01292007
80	85	24	■	03839016	00263959
83	88	24	▶	01291633	01292024
86	91	24	■	03839414	00263976
89	94	24	▶	01291650	01292041
92	97	24	■	03839919	00263993
95	100	24	▶	01291667	01292058
98	103	24	■	03840319	00276029
101	107	24	▶	01291684	01292075
104	112	24	■	03840610	00276046
108	116	24	▶	01291701	01292092
113	121	24	■	03840911	00276063
117	125	24	▶	01291718	01292109
122	130	24	■	03841318	00273139
126	134	24	▶	01291735	01292126
131	139	26	▶	03841415	00273156
140	148	26	▶	04959562	00273173
149	161	26	▶	05217856	00264010
162	174	26	▶	04990809	00264027
175	187	26	▶	05217657	00264044
188	200	26	●	04990862	00264061
201	213	26	▶	04990957	00264078
214	226	26	▶	00057766	00264095
227	239	26	▶	00057783	00264112
240	252	26	▶	00057800	00264129
253	265	26	▶	00273224	00264333
266	278	26	▶	00273241	00264350
279	291	26	▶	00273258	00264367
292	304	26	▶	00273479	00264384

Standard pack below 149mm: 10  
Standard pack above 149mm: 5

## Hose Clamp Maintenance Kit – Worm Drive – Part Stainless Steel



- Kit contains: 100 various clamp sizes as listed below
- Stainless steel grade 430 band and housing, zinc plated carbon steel screw
- High impact, plastic case
- Worm drive hose clamps, solid band
- Rolled edge and underside to prevent hose damage
- Suitable for farm, workshop or mobile application



Description	Part Number
● Part stainless steel maintenance kit	04160007

### Kit Contents include:

Hose ID Min mm	Hose OD Min mm	Band Width mm	Kit Quantity
8	12	9	22
10	16	9	20
12	20	9	10
16	27	12	10
20	32	12	8
25	40	12	10
35	50	12	10
40	60	12	10

## Hose Clamp Maintenance Kit – Worm Drive – Full Stainless Steel



- Kit contains: 100 various clamp sizes as listed below
- Full stainless steel grade 304 series for superior corrosion resistance
- High impact, plastic case
- Worm drive hose clamps, solid band
- Rolled edge and underside to prevent hose damage
- Suitable for farm, workshop or mobile applications



Description	Part Number
▶ Full stainless steel maintenance kit	04170008

### Kit Contents include:

Hose ID Min mm	Hose OD Min mm	Band Width mm	Kit Quantity
8	12	9	20
10	16	9	20
12	20	9	10
16	27	12	10
20	32	12	8
25	40	12	10
35	50	12	10
40	60	12	10

Clamps also sold individually

# HOSE CLAMPS

## Hose Clamp Display Boards – Worm Drive



- Sturdy merchandisers complete with 120 popular clamps as listed below
- Simple to load and select from
- Dimensions W382 x H934mm



Part Stainless



Full Stainless

Description	H mm	W mm	Part Number
● Part stainless steel clamp display board	934	382	<b>04170009</b>
● Full stainless steel clamp display board	934	382	<b>04160008</b>

Clamps also sold individually

### Part & Full Stainless Steel Clamp Dispenser Board Contains::

Hose ID Min mm	Hose OD Min mm	Band Width mm	Kit Quantity
8	12	9	20
10	16	9	20
12	20	9	20
16	27	12	15
20	32	12	15
25	40	12	15
35	50	12	15
40	60	12	15

## SPECIALIST HOSE MANUFACTURING AND SERVICING

NZ Safety Blackwoods' specialist hose and flow team have vast experience in specifying, assembling and servicing complex hose solutions to suit a broad range of industries.

With expert knowledge and extensive exposure to the infrastructure, food and beverage, rural and petrochemical environments, we design, assemble, install and service industry-leading hose and flow solutions for our customers throughout New Zealand.

Contact us on [hoseandflow@nzsafteyblackwoods.co.nz](mailto:hoseandflow@nzsafteyblackwoods.co.nz).

## Hose Clamps – Fuel Line Clips



- Ideal for use in confined spaces
- Fixed nut for ease of tightening
- OEM applications
- Rolled edge to prevent hose damage
- 6mm hexagonal head with screwdriver slot, 9mm band width
- Carbon steel zinc plated



Clamping Range mm	Band With mm	Part Number
▶ 7-9	9	<b>05595574</b>
▶ 9-11	9	<b>05595591</b>
▶ 12-14	9	<b>05595523</b>
▶ 13-15	9	<b>05595540</b>
▶ 14-16	9	<b>05595557</b>

## Hose Clamp Nutdriver



- Flexible shaft allows access to difficult locations
- High torque grip for positive tensioning of clamps
- Includes 6, 7 and 8mm sockets
- Interchangeable sizes for use on most standard hose clamps
- Suitable for easy installation and removal of most hose clamps



Mfr No.	Length mm	Part Number
■ CND-1	Hose clamp nut driver 150	<b>00862410</b>
▶ CND-2	Hose clamp nut driver 300	<b>01000848</b>
▶ CND-3	Hose clamp nut driver 600	<b>01001494</b>
● CND-4	Hose clamp nut driver 900	<b>00999437</b>

## OTK Hose Clamp Assortment Kit

- Contains 300 double ear clamps and one standard top join pincer
- Zinc plated steel
- Disturbing clasps, screws and band ends can be avoided by mounting an ear clamp

### Kit contains:

- 30 x 5-7mm
- 30 x 7-9mm
- 30 x 9-11mm
- 30 x 11-13mm
- 30 x 13-15mm
- 30 x 15-17mm
- 30 x 15-18mm
- 30 x 17-20mm
- 30 x 20-23mm
- 30 x 23-25mm
- 1 x Standard top join pincer
- Suitable for use on compressed air, gas and liquid lines



Mfr No.	No. of Clamps	Description	Part Number
▶ TEC300	300	Double ear clamp pack	<b>02566607</b>

KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## Hose Clamp – O Clip – 2 Ear

2 Ear clamps made from tube are suitable for use with rubber hose, plastic tubing, electrical cables and welding hoses. Perfect for low and medium pressure applications. Fast and easy to fit using genuine Tridon pincers. O clips made to W1 specifications: W1 = zinc plated steel DIN 1.0338



Mfr No.	Hose OD Min mm	Hose OD Max. mm	Part Number
■ TEC57	5	7	08027807
■ TEC79	7	9	08027904
■ TEC911	9	11	08028000
■ TEC1113	11	13	08028107
■ TEC1315	13	15	08028204
■ TEC1518	15	18	08028301
▶ TEC1720	17	20	08028408
▶ TEC2023	20	23	08028505
▶ TEC2225	21	25	06021662
▶ TEC2325	23	25	08028709
▶ TEC2528	25	28	08028806
▶ TEC2831	29	31	06021679
▶ TEC3134	31	34	08029009
▶ TEC3437	32	37	08029106
▶ TEC3740	37	40	00526201

## Hose Clamps – Oetiker® – 1 Ear Stepless®

Oetiker® 1 ear Stepless® clamps are all stainless steel, quick to fit and provide uniform compression and a 360° seal as the internal tongue glides under the ear during closure. Stepless refers to the absence of steps or gaps on the inner circumference of the clamp. Made from Grade 304 stainless steel these clamps are very popular with the food and beverage industry. Suitable for LPG hose installations.



Clamping Range mm	Clamp Width mm	Oetiker Cat. Number	Part Number
▶ 7.3-9.0	5	16702491	05623216
▶ 8.3-10.0	5	16700005	05622995
▶ 9.2-10.9	5	16702492	05623233
▶ 10.1-11.8	5	16700008	05623012
▶ 10.3-12.8	7	16702493	05623250
▶ 11.3-13.8	7	16700011	05623029
▶ 12.3-14.8	7	16700014	05623046
▶ 12.8-15.3	7	16700015	05623063
▶ 13.2-15.7	7	16700016	05623080
▶ 14.1-16.6	7	16702495	05623267
▶ 14.5-17.0	7	16700017	05623097
▶ 14.6-17.8	7	16700018	05623114
▶ 15.3-18.5	7	16700020	05623131
▶ 16.6-19.8	7	16702498	05623284
▶ 19.4-22.6	7	16700026	05623148
▶ 20.9-24.1	7	16700029	05623165
▶ 23.9-27.1	7	16703601	05623301
▶ 26.9-30.1	7	16700037	05623182
▶ 28.4-31.6	7	16700040	05623199

## Hose Clamps – O Clip – Pincers

Tridon FCP-1 side and top Pincers used for applying O Clips.



Mfr No.	Part Number
▶ FCP – 1	08029708

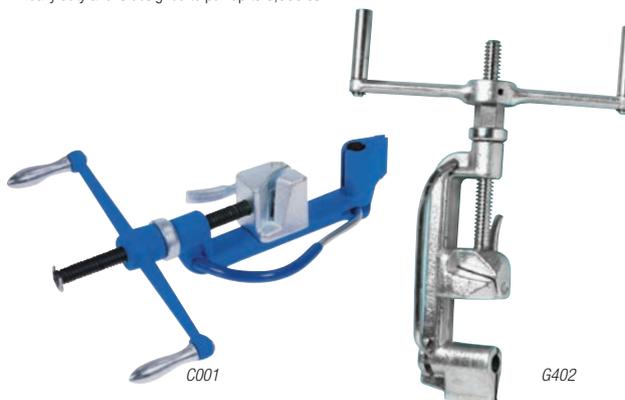
## STRAPPING TOOLS

### Strapping Tools



**Band-It C001 Tool** is drop forged with built in cutter tensions over 2,400lbs. Spring loaded gripper lever and friction held cutoff lever with plastic grip improves ease of use. Use to apply band, strapping and free end clamps up to 19mm width.

**Band-It G402 Giant Tool** is used to apply Giant band and buckles over 19-32mm width. Heavy duty and is designed to pull up to 6,000lbs.



Mfr No.	Description	Part Number
■ C001	For strap up to 19mm wide	04246501
● G402	For heavy duty strap up to 31.75mm wide	04250908

### Preformed Clamp Adaptors



Band-It Preformed clamp adaptors are required to be used with the C001 tool for correct clamping and cut off of the Band-It Preformed clamps. Choose from the standard J001 lever action adaptor or the heavy duty J050 ratchet version.



Mfr No.	Description	Part Number
▶ J001	Suits C001 tool	04246705
▶ J050	Heavy duty suits C001 tool	01671001

# STRAPPING TOOLS

## Center Punch Tool

Uses a ratchet action to apply tension to centre punch preformed clamps and secures these with a centre punch lock.



Mfr No.	Description	Part Number
▶ T300	Centre punch tool	02903913

## Bantam Tool

Compact lightweight ratchet action tool with built in cutter. Tension release levers allow band to be repositioned. 3 way handle adjusts for one or two handed tensioning. The C075 tool is useful in tight areas with restricted access.



Mfr No.	Description	Part Number
▶ C075	Bantam Tool	05646761

## Ultra-lok® Strapping Tool

UL4000-D (110V) and UL4000-DUK (220V) Ultra-lok tool allows you to install patented Ultra-lok preformed clamps virtually anywhere. The unique design allows consistent, repeatable tensioning and locking under full tension. This ensures that each and every clamp will have the same strength and holding characteristics. Designed for use only with specific cordless drills and supplied with special adaptors.



Mfr No.	Description	Part Number
● UL0020	Ultra-lok Tool c/w adaptor	05788150

## CLAMP KITS - SCRU-SEAL

### Scru-Seal Clamps

Make your own hose clamp. A screwdriver is the only tool needed to tension these clamps. 9.53mm or 12.70mm wide stainless steel band is used single or double wrapped, cut as required from the 30.5 metre roll. Seals and racks will accept both sizes.

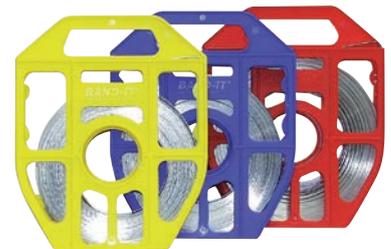


Mfr No.	Description	Std Pack Qty	Part Number
▶ M210	Scru-Seals and racks, 9.53mm x 30.5m band	25	04251606
▶ M211	Scru-Seals and racks	10	04343802

## STRAPPING & BAND

### Grade 201 Stainless Steel Band

Handy, waterproof PVC totes which are colour coded for easy identification (Note: 6.4mm band not available in tote packaging). Featuring a convenient carry handle and a see through design to show remaining band. Band-It band features the patented easy scale imprint design right on the band which eliminates costly waste and complicated measuring. Now you can quickly and precisely roll out the exact length of band you need for any clamp. Use with standard Ear Lokt buckles in either single wrap or double wrap for greater strength. Band-It Band strapping features rounded edges for easier and safer handling and installation.



Mfr No.	Band Width mm	Band Thickness mm	Length m	Part Number
▶ C202	6.35	0.51	30.5	04246909
▶ C203Y	9.53	0.63	30.5	04247005
▶ C204B	12.70	0.76	30.5	04247102
▶ C205G	15.88	0.76	30.5	04247209
▶ C206R	19.05	0.76	30.5	04247306

### Grade 316 Stainless Steel Band

Type 316 is specified for use in situations where corrosion is the major problem. It is used extensively in most atmospheres and environments where it is subject to chemicals, salts, acids and high temperatures.



Mfr No.	Band Width mm	Band Thickness mm	Length m	Part Number
▶ C403	9.53	0.63	30.5	01789401
▶ C404	12.70	0.76	30.5	01789508
▶ C405	15.88	0.76	30.5	01789605
▶ C406	19.05	0.76	30.5	01789702

KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## BUCKLES & CLIPS – STRAPPING

### Stainless Steel Ear-Lokt Buckles

Type 201 Ear-Lokt buckles are designed to accommodate both single and double wrap clamps to correspond with the use of Type 201 BAND-IT bands. Type 316 Ear-Lokt buckles are designed to accommodate both single and double wrap clamps to correspond with the use of Type 316 BAND-IT bands.



SS Grade	Mfr No.	Band Width mm	Std Pack Qty	Part Number
▶ 201	C252	6.35	100	04247908
▶ 201	C253	9.53	100	04248004
▶ 201	C254	12.7	100	04248101
▶ 201	C255	15.9	100	04248208
▶ 201	C256	19.1	100	04248305
▶ 316	C453	9.53	100	01789906
▶ 316	C454	12.7	100	01790005
▶ 316	C455	15.9	100	01790102
▶ 316	C456	19.1	100	01790209

### Stainless Steel Giant Band & Buckles

A heavy duty strapping solution using Band-It Type 201 Stainless steel. Band-It Giant products are often found in critical areas where higher breaking strength capabilities are required.



Mfr No.	Description	Part Number
▶ G432	32mm Giant Band (30.5m roll)	04251208
▶ G442	32mm Giant Buckles (Box of 25)	04251509

Other sizes available on request.

### Stainless Steel Scru-Lokt Buckles

In this application, BAND-IT band is secured in the buckle with a set screw. A hex wrench for this purpose comes with the buckles. Use Scru-Lokt buckles when close quarters will not permit the roll over action of the BAND-IT tool, or when a temporary or adjustable clamp is desired. Scru-Lokt clamps are reusable, and may be re-tensioned.



Mfr No.	Band Width mm	Std Pack Qty	Part Number
▶ C722	9.6	50	02186304
▶ C724	12.7	25	04249508
▶ C726	19.1	25	04249605

Other sizes available on request.

## PREFORMED CLAMPS

### Stainless Steel JR Smooth Preformed Clamps

A smooth inside diameter to prevent leak paths. They are vibration resistant and require no hammering or crimping. They are automatically locked in one simple lever movement. Manufactured from superior strength type 201 stainless steel.



Mfr No.	Clamp ID mm	Width mm	Part Number
▶ JS240	20.6	6.4	05983497
▶ JS201	20.6	9.5	05780551
▶ JS242	25.4	6.4	05983531
▶ JS243	25.4	9.5	05983565
▶ JS203	25.4	12.7	05982800
▶ JS204	31.8	12.7	05982851
▶ JS241	34.9	6.4	05983514
▶ JS202	34.9	9.5	05982732
▶ JS252	38.1	6.4	05234443
▶ JS231	38.1	12.7	05983446
▶ JS205	38.1	15.9	05982868
▶ JS206	44.5	15.9	05982885
▶ JS253	50.8	6.4	05983718
▶ JS245	50.8	9.5	05983616
▶ JS237	50.8	12.7	05557562
▶ JS207	50.8	15.9	05982936
▶ JS208	57.2	15.9	05982953
▶ JS233	63.5	12.7	05983463
▶ JS209	63.5	15.9	05982970
▶ JS230	69.9	12.7	05983429
▶ JS210	69.9	19.1	05983004
▶ JS246	76.2	9.5	05983633
▶ JS234	76.2	12.7	05983480
▶ JS211	76.2	19.1	05983021
▶ JS247	88.9	12.7	05983667
▶ JS212	88.9	19.1	05983055
▶ JS248	101.6	9.5	05557579
▶ JS249	101.6	12.7	05983684
▶ JS213	101.6	19.1	05983089
▶ JS214	114.3	19.1	05983106
▶ JS215	127.0	19.1	05983276
▶ JS216	152.4	19.1	05983293
▶ JS217	165.1	19.1	05983310
▶ JS218	177.8	19.1	05983327
▶ JS219	203.2	19.1	05983344

### Stainless Steel Center Punch Preformed Clamps

Clamps are Locked with a standard conical punch, ensuring a strong powerful lock for reliable clamping. Made from type 201 stainless steel they are applied using the Band-It Centre Punch T300 tool.



Mfr No.	Clamp ID mm	Width mm	Part Number
▶ CP5S	32	16	01342242
▶ CP6S	38	16	01342276
▶ CP7S	44	16	01342293

Continued

# PREFORMED CLAMPS & CLAW COUPLINGS

Continued

Mfr No.	Clamp ID mm	Width mm	Part Number
▶ CP8S	51	16	01342327
● CP10S	64	16	01342361
● CP11S	70	16	01342378
▶ CP12S	76	16	01342395
▶ CP14S	89	16	01342412
▶ CP16S	102	16	01342429
● CP18S	114	16	01342446
▶ CP20S	127	16	01342463
▶ CP24S	152	16	01342480

## Stainless Steel Ultra-lok® Preformed Clamps



Clamps are made from 0.76mm thick type 201 stainless steel offer superior strength and corrosion resistance. Patented Ultra-lok clamp design locks under full pull-up tension and is 2-3 times stronger than conventional preformed clamps. Impact has no effect on Ultra-lok clamps. Smooth ID construction provides uniform gap-free inside diameter to prevent leaks particularly with recent chemical hose developments which are made from harder compounds. Use only with Band-It Ultra-lok tool.



Mfr No.	Clamp ID mm	Width mm	Part Number
▶ UL279	38	12.7	05557630
▶ UL283	51	12.7	05557647
▶ UL286	70	12.7	05557664
▶ UL291	102	12.7	05557681
▶ UL227	51	19.1	01156058
▶ UL210	70	19.1	01156075
▶ UL211	76	19.1	01156092
▶ UL212	89	19.1	01156109
▶ UL213	102	19.1	01156126
▶ UL214	114	19.1	01156143
▶ UL215	127	19.1	01156160
▶ UL216	152	19.1	01156194
▶ UL217	165	19.1	01156211
▶ UL218	178	19.1	01156228
▶ UL219	203	19.1	01156245

## COUPLINGS - CLAW SAFETY & CLAMPS

### Type "A" 2 Lug Safety Couplings

**LUDECKE**

Robust malleable iron, zinc plated and yellow passivated with a standard oil resistant rubber seal with a double lug for safety which eliminates the need for safety locking pins. Rated to a maximum working pressure of 10 bar and a temperature range of -40°C up to +95°C they are designed primarily for use in compressed air applications.



Nominal Size mm	Male	Female	Hose End	Blank End
10			▶ 00014552	▶ 00080444
13	▶ 04958055	▶ 00057494	▶ 00060996	▶ 00080444
19	▶ 00000663	▶ 00014654	▶ 00014586	▶ 00080444
25	▶ 00057511	▶ 00057528	▶ 00110415	▶ 00080444

### Type "A" 1 Lug Safety Couplings

**LUDECKE**

Robust malleable iron, zinc plated and yellow passivated with a standard oil resistant rubber seal with a single lug. Rated to a maximum working pressure of 10 bar and a temperature range of -40°C to +95°C they are designed primarily for use in compressed air applications.



Nominal Size mm	Male	Female	Hose End
13	▶ 04990563	▶ 04959368	▶ 04987152
19	▶ 00014722	▶ 04959465	▶ 04959162
25	▶ 04957858	▶ 04958760	▶ 04958658

### Type "A" 1&2 Lug Safety Coupling Accessories

**LUDECKE**

Supplied with GOER standard Buna (Perbunan) rubber seals – for replacements and to be able to use at higher temperatures there is a full range of spares. For higher temperature applications use the White GDOR (Ohasil) which are rated to a maximum temperature of +200°C.



Nominal Size mm	Std Buna Black	Steam White	Locking Pins
▶ 10-25	▶ 04987856	▶ 00138176	▶ 04989456

### Type "B" 1 Lug Safety Couplings

**LUDECKE**

US style are robust malleable iron, zinc plated and yellow passivated with a standard oil resistant rubber seal with bore for the fitting of safety locking pins. Rated to a maximum working pressure of 10 bar and a temperature range of -40°C to +95°C they are designed primarily for use in compressed air applications.



Nominal Size mm	Male BSP	Male NPT	Female BSP	Female NPT	Hose End
10	▶ 00014739	▶ 05570193	▶ 00014773	▶ 05570329	▶ 00014705
13	▶ 00014603	▶ 05570227	▶ 00014569	▶ 05570363	▶ 04987055
19	▶ 00014620	▶ 05570261	▶ 00014807	▶ 05570397	▶ 04959067
25	▶ 04958965	▶ 05570295	▶ 00080478	▶ 05570431	▶ 04987555

KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## Accessories For Couplings Safety – Type B 1 Lug

**LUDECKE**

Supplied with GOER standard Buna (Perbunan) rubber seals – for replacements and to be able to use at higher temperatures there is a full range of spares. For higher temperature applications use the White GDOR (Ohasil) which are rated to a maximum temperature of +200°C.



Nominal Size mm	Std Buna Black	Blank	Locking Pins
▶ 10-25	▶ 00014790	▶ 05567966	▶ 04989456

## Couplings Safety – Stainless Steel

**LUDECKE**

Made from investment cast stainless steel with a green viton chemical resistant rubber seal as standard. Features include a double lug for safety eliminating the need for safety locking pins. Rated to a maximum working pressure of 16 bar and a temperature range of +30°C to +200°C they are designed primarily for use in the petrochemical, food, beverage and pharmaceutical industries.



Nominal Size mm	Male	Female	Hose End
10	▶	▶	▶ 05568017
13	▶ 05567847	▶ 05567898	▶ 05568034
19	▶ 05567864	▶ 05567915	▶ 05568051
25	▶ 05567830	▶ 05567881	▶ 05568068

## Accessories For Couplings Safety – Stainless Steel

**LUDECKE**

Supplied with GVOR Viton green rubber seals which are available as spares. Blank ends are often required to ensure hoses and plant equipment are kept clean. The Mody version hose couplings offer an alternative to the standard connections.



Nominal Size mm	Std Viton GVOR	Blank End	Mody Hose Coupling
▶ 13	▶ 05568136	▶ 05567932	▶ 05567949
▶ 19	▶ 05568136	▶ 05567932	▶ 00080512
▶ 25	▶ 05568136	▶ 05567932	▶ 05567983

## Safety Clamp

**LUDECKE**

Robust and made from malleable iron, zinc plated and yellow passivated. Designed for use with the Ludecke safety claw couplings to provide a safe hose assembly. The S22 is a two part clamp with overlapping cast-on saddles



Description	Mfr No.	Part Number
● For Hose 13mm ID (OD range 17-22mm)	S 22	05985435

## Safety Clamps

**LUDECKE**

Robust and made from malleable iron, zinc plated and yellow chromated. Designed for use with the Ludecke safety claw couplings to provide a safe hose assembly. The SL series from Ludecke Germany up to size SL94 meets DIN 20039 A and is a two part clamp with loose saddles. Suitable for use up to 16 Bar working pressure.



For Hose ID mm	Hose OD Range mm	Mfr No.	Part Number
▶ 13	22-29	SL29	00014637
▶ 19	28-34	SL34	04958152
▶ 25	32-40	SL40	04990262
▶ 32	39-49	SL49	04958466
▶ 38	48-60	SL60	04958864
▶ 50	60-76	SL76	00014484
▶ 63	77-94	SL94	00014535
● 75	94-115	SL115	04958255
● 89	115-145	SL145	04958364
● 100	135-155	SL600	00057460

## Safety Claw Clamps

**LUDECKE**

Robust and made from malleable iron, zinc plated and yellow chromated. Designed for use with the Ludecke safety claw couplings to provide a safe hose assembly. The SK series from Ludecke Germany meets DIN 20039 B and is a two part clamp with loose saddles and safety claws. Suitable for use up to 25 Bar working pressure.



For Hose ID mm	Hose OD Range mm	Mfr No.	Part Number
▶ 19	28-32	SK34	04959264
▶ 25	35-42	SK39	04990068
▶ 28	42-45	SK44	04990165
▶ 35	45-53	SK51	04990466
▶ 42	55-60	SK60	00014688
▶ 50	60-73	SK73	00014671

## Heavy Duty “Boss” Claw Clamps

Heavy duty bolt clamp to be used in conjunction with 2" Hose with an outside diameter between 59.5-64.3mm



Nominal Size mm	Part Number
▶ 50	05622961

## RELATED PRODUCT

### Thermo-Plastic Safety Hoses (700 Series) – Enerpac

**ENERPAC**

Lengths up to 15 metres. 700bar working pressure. 4:1 design factor. Crimped on rubber strain relief for improved life and durability on all models.



Mfr No.	Length m	Hose End		700 Series
		1	2	
▶ HC7203	0.9	CH604	3/8" NPTM	05357716
▶ HC7206	1.8	CH604	3/8" NPTM	07878002
▶ HC7210	3	CH604	3/8" NPTM	07878507
● HC7220	6.1	CH604	3/8" NPTM	07878701

\* Other models available on request

# COUPLINGS

## Couplings – Type A – Bellows Minsup™ – SG Iron



Standard coupling heads ensure the interchangeability of all sizes, regardless of whether the mating coupling is female, male or hose end.



Size mm	Working Pressure psi	Female	Male	Hose End	3-Way	Blank End
10	1000	● 05269854	● 05269769	● 05269922		
15	1000	● 05269871	● 05269786	● 05269939		
20	1000	● 05269888	● 05269803	● 05269956		
25	1000	● 05269905	● 05269820	● 05269973		
32	1000		● 05269837	● 05269990		
10-32	1000				● 06816242	● 06816259

Other seal materials and NPT available on request

## Couplings – Type A – Minsup™ – Standard Seal



Standard coupling heads ensure the interchangeability of all sizes, regardless of whether the mating coupling is female, male or hose end.



Size mm	Working Pressure psi	Female	Male	Hose End	Blank End
10	500	● 07254817	● 07254419	● 07255612	
15	500	● 04155003	● 04154208	● 04154606	
20	500	● 04155100	● 04154305	● 04154703	
25	500	● 04155207	● 04154402	● 04154800	
32	500	● 07252615	● 07253818		
10-32	500				● 03606693

Other seal materials and NPT available on request

## Rubber Seals – Type A & Surelock



• Temperature range: rubber; -29°C to +71°C



Size mm	Size	Type	Material	Part Number
▶ 10-32	3/8-1 1/9"	A Type Standard	Natural rubber	04458700
▶ 10-32	3/8-1 1/4"	A Type Bellows	Natural rubber	05270007
▶ 40-50	M	Surelock	Composite	04562454
▶ 80	L	Surelock	Composite	06816276

## Couplings – Surelock – Stainless Steel



• High quality precision cast fittings suitable for corrosive environments  
• Stainless Steel Grade 316 CF8M



Size mm	Female	Male	Hose Tail
13	● 06814372		
15		● 01348787	● 01348872
20	● 01348719	● 01348804	● 01348889
25	● 01348736	● 01348821	● 01348905
50	● 01348770	● 01348855	● 01348940

## Couplings – Type A – Bellows Minsup™ – Stainless Steel



Standard coupling heads ensure the interchangeability of all sizes, regardless of whether the mating coupling is female, male or hose end.



Size mm	Working Pressure psi	Female	Male	Hose End
13	1000	● 06816140	● 06816089	● 06816191
20	1000	● 06816157	● 06816106	● 06816208
25	1000	● 06816174	● 06816123	● 06816225

Other seal materials and NPT available on request

KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## Couplings – Surelock

- Heavy duty coupling
- Complete with new composite bellow seal
- Designed to be a positive locking system
- Does not interchange with the Type A coupling
- Suitable for Australian underground mining, air and water use
- SG Iron ISO 1083
- Protection: Zinc Plated to AS 1789:2003



Size mm	Working Pressure psi	Female	Male	Hose End	3-Way	Blank End
10	1000	● 00971125	● 04727367	● 09614112		
15	1000	● 09705717	● 09705814	● 09705610		
20	1000	● 03601899	● 09668919	● 09669015		
25	1000	● 09613715	● 09613317	● 09613919		
32	1000		● 01348226	● 01348243		
40	1000	● 06529417	● 03606761	● 06531214		
50	1000	● 06526818	● 06526012	● 06527817		
80	500	● 01515763	● 01515865	● 01515666		
10-32	1000				● 01122956	● 09844911
40-50	1000				● 04849562	● 01378928

## DOUBLE BOLT CLAW CLAMPS

### Double Bolt Claw Clamp – Mining

- Inserts in clamps are made from Zytel™
- Protection: Zinc plated
- Material: SG Iron ISO 1083



Mfr No.	Nominal ID inch	Hose OD Min mm	Hose OD Max. mm	Torque Nm	Part Number
● 08/023/42/000	1/2	22	28	25	00224808
● 08/023/43/000	3/4	29	34	25	00248336
● 08/023/46/000	1	35	40	35	00275604

### Double Bolt Heavy Duty Claw Clamp with Chain

- Protection: Zinc plated
- Material: SG Iron ISO 1083-400-250-15



Mfr No.	Nominal ID inch	Hose OD Min mm	Hose OD Max. mm	Part Number
● 08/023/06/000	1 1/2	51.0	58	06813471
● 08/023/04/000	2	65.5	71	01177121

## SAFETY ACCESSORIES

### Safety Locking Pin

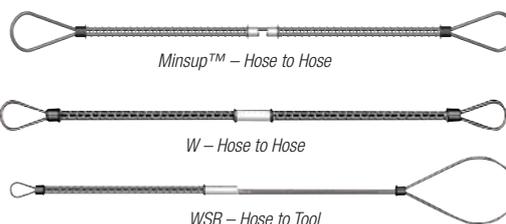
- Use of a locking pin ensures claw couplings will not be accidentally disconnected
- Pins will not go through holes in both couplings until they are locked in place ensuring correct connection



Mfr No.	Description	Part Number
▶ 05/010/02/000	Safety locking pin	04458603

### Safety Whipcheck

- Materials; wire rope: 6 x 19 G1570 FC galvanised steel, Ferrules: mild steel, Spring: zinc plated spring steel
- Crimped steel ferrules suitable for use in underground coal mines – Minsup™ style only
- Maximum working pressure: 200psi
- Eliminates injuries caused by broken air hose connections
- No tools needed; easy to install and remove



Mfr No.	Style	Size mm	Length mm	Part Number
● 08/023/90/000	Minsup™	3.5	510	00753729
● 08/023/91/000	Minsup™	6	810	00753746
● 08/023/92/000	Minsup™	6	1200	00753763
● WB1	W	3	515	06816293
● WA2	W	6	962	06816344
● WSR1	WSR	3	515	06816310
● WRS2	WSR	6	956	06816327

# COUPLINGS – WATER GUNS & NOZZLES

## Couplings – Air King

- Suitable for air and water services only
- Malleable iron ASTM A47



Mfr No.	Thread Type	Size inch	Working Pressure psi	Part Number
● AM2A	Male BSP	1/2	150	06813012
● AM7A	Male BSP	3/4	150	06813029
● AM12A	Male BSP	1	150	06813046
● AMB1	Male NPT	1/4	150	06812893
● AMB	Male NPT	3/8	150	06812910
● AM2	Male NPT	1/2	150	00625328
● AM7	Male NPT	3/4	150	00625379
● AM12	Male NPT	1	150	00625464
● AM3A	Female BSP	1/2	150	06813063
● AM8A	Female BSP	3/4	150	06813080
● AM13A	Female BSP	1	150	06813097
● AMC1	Female NPT	1/4	150	06812927
● AMC	Female NPT	3/8	150	06812944
● AM3	Female NPT	1/2	150	06812961
● AM8	Female NPT	3/4	150	06812978
● AM13	Female NPT	1	150	06812995
● AM10	3-Way NPT	3/8-1	–	00625413
● AMO	Blank End NPT	3/8-1	–	06814406
● AMH	Hose End	3/8	150	06813964
● AM1	Hose End	1/2	150	00625277
● AM5	Hose End	5/8	150	06813981
● AM6	Hose End	3/4	150	00625362
● AM11	Hose End	1	150	06822685

## WATER GUNS & NOZZLES

### Water Guns & Nozzles – Fynspray

An extremely economical cold water washdown gun with ergonomic plastic handle, insulated metal body and an adjustable spray pattern from strong jet to wide angle spray. The WS44 is commonly used in industrial plants and is ideal for apron wash, boot wash or general clean up operations where cold water is used. Rated for a maximum 7 bar working pressure which will deliver 12L/min.



Size	Mfr No.	Part Number
■ 3/4" BSP female thread	WS44UG	05633654

### Water Guns & Nozzles – Hot Water – Gunna Stainless Steel

The Gunna washdown nozzle offers user protection with standard non-slip white NBR rubber handle and top covers whilst reducing operator fatigue if fitted with the swivel option hose connectors. Gunna nozzles enable users to reduce water consumption by automatically shutting off when released. The maximum operating temperature is 80°C and the maximum operating pressure should not exceed 6 bar. Variable spray or jet pattern controlled by trigger pressure. Easy volume adjustment is achieved by turning the screw at the back of the gun. A full range of spare parts are also available. Not suitable for steam applications.



Description	Mfr No.	Part Number
■ All stainless steel gun	GUNNA-SS	05633263
■ Stainless steel swivel hoesetails 13mm x 1/2" MBSP	ZG1029	05567252
■ Stainless steel swivel hoesetails 19mm x 1/2" MBSP	ZG10210	05567235

## HOSE & HOSE COUPLING SAFETY

The very properties that make compressed gases useful in almost every area of modern life can also make them dangerous when mishandled. Years of experience with compressed gases have led to practices and equipment which, if employed correctly, can enhance your safety.

### 1. Air Hose Couplings

Air can be one of the most dangerous forms of energy as it is used in so many applications. Air as a gas is compressible (fluids press only against hose or vessel walls and lose little volume under pressure). When compressed air releases suddenly it does so with explosive force and can cause rapid hose whip, which can do serious physical harm to personnel or damage to nearby objects. This is why selecting the correct hose and couplings for air lines as well as their proper installation and maintenance is so important. Never take for granted that a coupling is connected properly or that a clamp is fully tightened on an air hose – check it regularly and use safety devices.

### 2. Steam & Gas

The same rules apply for steam and gas as they do for air. As steam and gas are inherently more hazardous, the hose and couplings on these lines must be treated with more care and respect. Checking clamp tightness is very important with steam hose as it is not unusual for clamps to loosen in service. In this case they MUST BE RETIGHTENED. Safety devices should also be used.

### 3. Fluid Hose Couplings

Check clamps for tightness each time the lines are used especially when petroleum products or other hazardous liquids are involved. When large diameter hose is suspended it can also be dangerous if it drops unexpectedly due to a coupling 'pull-out' or sudden disconnection. A heavy fitting or clamp, plus the weight of the hose itself falling from any height can cause injuries or damage. Be sure to use safety devices.

### 4. All Hose Assemblies

All hose assemblies should be treated with respect and as a potential hazard: worn out fittings should be replaced; retaining devices such as clips, cables or chains should be used; clamps should be checked regularly; under no circumstances should any coupling be disconnected while under pressure, unless the coupling is specifically designed to do so; disconnecting couplings under pressure could result in serious injury or death and destruction of property and equipment.

This guide is designed to inform and educate anyone who manufactures, specifies, supplies, purchases, assembles, uses, maintains or tests any hose assembly or its component parts. The proper selection and maintenance of hose, couplings, attachment devices and accessories is imperative.



KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## Hot Wash Guns

### TEC6438, TEC6430, TEC6310, TEC6445, TEC6465 and TEC6468

- Heavy duty, low pressure ergonomic washdown gun with a balanced, comfortable to hold body shape
- Unbreakable stainless steel spindle for trouble-free, long life (Only on TEC6438, TEC6430 and TEC6310)
- Adjustable spray pattern
- Suitable for hot or cold water
- No exposed metal parts and no heat transfer to casing or trigger, so no burn risk when using hot water
- Insulating air gap between inner body and outer casing
- Heavy duty swivel inlet reduces strain on wrist and elbow making gun easier to use
- Trigger guard protects fingers from injury
- Nickel plated brass inner body with tough blue coloured nylon outer casing and trigger (Except TEC6310)
- Quick and easy to service if required

### TEC6430

- Red outer casing and trigger
- Easy to indicate that gun uses hot water; stands out from other guns

### TEC6310

- Stainless steel grade 316 inner body and swivel inlet
- Ideal where chemicals are used in the washdown water
- Long life because of stainless steel construction
- Distinctive grey trigger

### TEC6445

- 67% Higher flow rate where greater water volume and impact force is needed
- Distinctive red trigger

### TEC6453

- 67% Higher flow rate where greater water volume and impact force is needed
- 1/2" BSP female outlet makes it possible to fit stainless steel lances to clean hard to reach areas
- Accepts lances TECE450 (450mm long), TECE700 (700mm long) or any suitable lance
- Nickel plated brass inner body with tough blue coloured nylon outer casing and trigger
- Distinctive red trigger

### TECE450

- Strong stainless steel lance, 450mm long, 1/4" diameter with 1/2" bush, to suit TEC6453 ergonomic gun
- Durable, bonded rubber insulating grip

### TECE700

- Strong stainless steel lance, 700mm long, 1/4" diameter with 1/2" bush, to suit TEC6453 ergonomic gun
- Durable, bonded rubber insulating grip

### TEC6465 and TEC6468

- Heavy duty ergonomic gun with 350mm long integral insulated lance and adjustable hand grip
- Insulated lance and adjustable hand grip make it more comfortable to hold for extended periods of time
- Adjustable spray that shuts off at the end of lance so there is no water dripping
- No heat transfer to gun, trigger or lance even when using very hot water
- TEC6468 red in colour

**Tecpro**  
SOLUTIONS



TEC6438



TEC6430



TEC6310



TEC6445



TEC6453



TECE450



TECE700



TEC6468

## Continued

Mfr No.	Description	Part Number
TEC6438	60 L/min @ 24 bar, max.90°C, blue colour and trigger	06141155
TEC6430	60 L/min @ 24 bar, max.90°C, red colour and trigger	07866621
TEC6310	316 SS, 60 L/min @ 24 bar, max.90°C, blue colour, grey trigger	07866570
TEC6445	High flow 100 L/min @ 24 bar, max.90°C, blue colour, red trigger	06141172
TEC6453	1/2" BSP Outlet, 60-100L/min @ 24 bar, max.90°C, blue colour, red trigger	06141189
TECE450	450mm SS lance c/w insulating grip, nozzle and bush to fit gun	06141240
TECE700	750mm SS lance c/w insulating grip, nozzle and bush to fit gun	06141274
TEC6465	Integral lance,350mm long, 60 L/min @ 24 bar, max.90°C, blue colour	07866587
TEC6468	Integral lance,350mm long, 60 L/min @ 24 bar, max.90°C, red colour	07866604

## Water Guns & Nozzles – Cold Water – Alloy

New Zealand made aluminium nozzle with easy turn jet to spray. Fitted with a safety ring for abrasion resistance these nozzles are light and easy to use while providing good service life. 1" Female BSP threaded inlet.



Size in.	Mfr No.	Part Number
1	NZ 25	05567575

## Water Guns & Nozzles – Cold Water – Truedesign

Made from tough polycarbonate polymer and are ideal for industrial and agricultural applications where cold water in either a strong jet or fine fog pattern is required.



Description	Litres per min @ 6 Bar WP	Part Number
A Small powerjet nozzle	100	05558718
B Standard powerjet nozzle	275	05558752
C Nozzle adaptors for hose 19mm	-	05571485
C Nozzle adaptors for hose 25mm	-	05571502
C Nozzle adaptors for hose 32mm	-	05571519
C Nozzle adaptors for hose 38mm	-	05571536
D Fire reel hose nozzle	50	05558735
E Power spray nozzle (nylon 6)	n/a	05558769

## AIRLINE FITTINGS

### Airline Fittings – Steel

ARO airline couplings are available in 3 size ranges; 1/4", 3/8" and 1/2" in a style interchangeable with the ARO range.



**3/8" Male Adaptor To 10mm Hosetail**

Mfr No.	Part Number
FAC111/3810	03043228



**3/8" Male Adaptor x 1/4" BSPT**

Mfr No.	Part Number
FAC117/3807	0555573



**1/4" Air coupling to 1/4" BSPT**

Mfr No.	Part Number
FAC100/A210	03045404



**1/4" Male Adaptor to 6mm Hosetail**

Mfr No.	Part Number
FAC105/A3946	03045455



**3/8" Male Adaptor To 3/8" BSPT**

Mfr No.	Part Number
FAC109/3808	03043245



**3/8" Female Adaptor To 3/8" FBSP**

Mfr No.	Part Number
FAC110/3809	02869154



**1/4" Male Adaptor to 8mm Hosetail**

Mfr No.	Part Number
FAC106/A3947	03045472



**1/4" Male Adaptor to 10mm Hosetail**

Mfr No.	Part Number
FAC107/A3948	03045489



**1/2" Air Coupler To 1/2" FBSP**

Mfr No.	Part Number
FAC112/400	03045506



**1/2" Male Adaptor to 15mm Hosetail**

Mfr No.	Part Number
FAC115/308005	03045557



**1/4" Male Adaptor to 1/8" BSPT**

Mfr No.	Part Number
FAC101/A2607	07960208



**1/4" Male Adaptor to 1/4" BSPT**

Mfr No.	Part Number
FAC102/A2608	03045421



**1/2" Male Adaptor To 1/2" BSPT**

Mfr No.	Part Number
FAC113/300405	03045523



**1/2" Female Adaptor To 1/2" FBSP**

Mfr No.	Part Number
FAC114/300415	03045540



**1/4" Male Adaptor to 3/8" BSPT**

Mfr No.	Part Number
FAC104/A2700	03040848



**1/4" Male Adaptor to 1/4" FBSP**

Mfr No.	Part Number
FAC103/A2609	03045438



**1/4" BSPT to 10mm Hosetail**

Mfr No.	Part Number
FAC116/A111	07961207



**3/8" Air Coupler To 3/8" FBSP**

Mfr No.	Part Number
FAC108/3800	03043279

**Air Hose Starter Kit 9 piece**

Mfr No.	Part Number
FAC250	05556117

**KEY:** ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## ARO Interchangability



### Airline Fittings

Quick Connect Couplings made in Sweden since 1955, Cejn provides assurance of the highest quality and superior performance.

## 315 (3/8") SERIES - STANDARD

### 315 Standard – Couplings

Description	Size	Part Number
● Hose connection	10mm (3/8")	419442
● Hose connection	13mm (1/2")	419443
● Male thread	6mm (1/4" BSPM)	419444
● Male thread	10mm (3/8" BSPM)	419445
● Male thread	13mm (1/2" BSPM)	419446
● Female thread	6mm (1/4" BSPF)	419447
● Female thread	10mm (3/8" BSPF)	419448
● Female thread	13mm (1/2" BSPF)	419449
● Stream-line connection	6.5 x 10mm Hose	419450
● Stream-line connection	8 x 12mm Hose	419451



### Standard Nipples

#### 300 Series (ARO210 Interchange)

Description	Size	Part Number
● Hose connection	6mm (1/4")	02456780
● Hose connection	8mm (5/16")	02456797
● Hose connection	10mm (3/8")	02456814
● Male thread	6mm (1/4" BSPM)	02456831
● Male thread	10mm (3/8" BSPM)	02456848
● Male thread	13mm (1/2" BSPM)	02456865
● Female thread	6mm (1/4" BSPF)	02456882
● Female thread	10mm (3/8" BSPF)	02456899



#### 315 Series (ARO380 Interchange)

Description	Size	Part Number
● Hose connection	8mm (5/16")	419452
● Hose connection	10mm (3/8")	417947
● Hose connection	13mm (1/2")	419453
● Male thread	3mm (1/8" BSPM)	419454
● Male thread	6mm (1/4" BSPM)	417946
● Male thread	10mm (3/8" BSPM)	419455
● Male thread	13mm (1/2" BSPM)	419456
● Female thread	3mm (1/8" BSPF)	419457
● Female thread	6mm (1/4" BSPF)	417948
● Female thread	10mm (3/8" BSPF)	419458
● Female thread	13mm (1/2" BSPF)	419459
● Stream-line connection	6.5 x 10mm Hose	419460
● Stream-line connection	8 x 12mm Hose	419461



## ACCESSORIES

### Blow Guns

Description	Part Number
▶ Standard blow gun 1/4" Inlet (No Tube)	02457222
▶ Standard blow gun 1/4" Inlet (With Tube)	02457239
▶ Blow gun tube 300mm	02457273
▶ Blow gun tube 500mm	02457290
▶ Blow gun tube 90mm	02457256



### Multiflow Air & Fluid Gun

Description	Part Number
▶ Multi air & fluid gun	02457477



## 300 (1/4") & 315 (3/8") SERIES - ESAFE

### ESAFE Couplings

#### 300 Series (ARO210 Interchange)

Description	Size	Part Number
● Hose connection	8mm (5/16")	02456423
■ Hose connection	10mm (3/8")	02456440
■ Male thread	6mm (1/4" BSPM)	02456457
● Male thread	10mm (3/8" BSPM)	02456474
▶ Male thread	13mm (1/2" BSPM)	02456491
■ Female thread	6mm (1/4" BSPF)	02456508
▶ Female thread	10mm (3/8" BSPF)	02456525
▶ Female thread	13mm (1/2" BSPF)	02456542
● ESAFE 300 multi-link	1	02456576
● ESAFE 300 multi-link	2	02456593
▶ ESAFE 300 multi-link	3	02456610
▶ ESAFE 300 multi-link	4	02456627



#### 315 Series (ARO30 Interchange)

Description	Size	Part Number
● Hose connection	10mm (3/8")	417951
■ Hose connection	13mm (1/2")	419462
■ Male thread	6mm (1/4" BSPM)	417949
● Male thread	10mm (3/8" BSPM)	419463
▶ Male thread	13mm (1/2" BSPM)	419464
■ Female thread	6mm (1/4" BSPF)	417950
▶ Female thread	10mm (3/8" BSPF)	419465
▶ Female thread	13mm (1/2" BSPF)	419466



## 342 SERIES - AIR BREATHING

### Air Breathing – Couplings

Description	Size	Part Number
● Hose connection	6mm (1/4")	02456916
● Hose connection	8mm (5/16")	02456933
● Hose connection	10mm (3/8")	02456950
● Hose connection	13mm (1/2")	02456967
● Male thread	6mm (1/4" BSPM)	02456984
▶ Male thread	10mm (3/8" BSPM)	02457001
▶ Male thread	13mm (1/2" BSPM)	02457018
● Female thread	6mm (1/4" BSPF)	02457035
● Female thread	10mm (3/8" BSPF)	02457052
● Female thread	13mm (1/2" BSPF)	02457069



### Air Breathing – Nipples

Description	Size	Part Number
● Hose connection	6mm (1/4")	02457086
▶ Hose connection	10mm (3/8")	02457103
● Male thread	6mm (1/4" BSPM)	02457137
● Male thread	10mm (3/8" BSPM)	02457154
● Male thread	13mm (1/2" BSPM)	02457171
● Female thread	6mm (1/4" BSPF)	02457288
● Female thread	10mm (3/8" BSPF)	02457205



## 550 (1/2") SERIES - ESAFE

Description	Size	Part Number
▶ Hose connection	13mm (1/2")	06600512



## ARO Interchangability

**LUDECKE**

### Brass – Couplings

**Coupling Materials:** Connections, sleeve, valve body, valve are made from brass MS 58 alloy; spring, retaining ring and pins are from stainless steel 316.

**Ends:** Screwed BSP or Hose end depending on configuration

Ludecke DN 5.5 ARO brass airing couplings offer a new closed sleeve profile which protects couplings from dirt. New improved stem profile allows safe and simple fit and easy assembly. Designed and manufactured in Germany for use with compressed air lines in all workshops throughout the industrial and rural areas. Interchangeable with Rectus Series 14/22 and ARO 210, the Ludecke ESO brass quick disconnect coupling is suitable for a maximum working pressure of 35 bar and is ideal for areas where steel couplings corrode.



Size & Description	Mfr No.	Part Number
▶ Couplings with Male Thread 1/4"	ESO 14 A	05570856
▶ Couplings with Male Thread 3/8"	ESO 38 A	05570890
▶ Couplings with Female Thread 1/4"	ESO 14 I	05570822
▶ Couplings with Hose Stem 6mm	ESO 6 T	05570839
▶ Couplings with Hose Stem 9mm	ESO 9 T	05570873

## ARO Interchangability

### Brass – Adaptor Plugs

**LUDECKE**



Size & Description	Mfr No.	Part Number
▶ Adaptor Plugs with Male Thread 1/8"	ESO 18 NA	05568357
▶ Adaptor Plugs with Male Thread 1/4"	ESO 14 NA	05568425
▶ Adaptor Plugs with Male Thread 3/8"	ESO 38 NA	05568493
▶ Adaptor Plugs with Female Thread 1/4"	ESO 14 NI	05568374
▶ Adaptor Plugs with Female Thread 3/8"	ESO 38 NI	05568459
▶ Adaptor Plugs with Hose Stem 6mm	ESO 6 S	05568391
▶ Adaptor Plugs with Hose Stem 9mm	ESO 9 S	05568476

## Brass – 3 Way Distributor

**LUDECKE**



Size & Description	Mfr No.	Part Number
▶ Distributor with Female Thread 3/8" – 3 Way	DWS 38	05570907
▶ Distributor with Female Thread 3/8" – 4 Way	VWS 38	05570924

## Air Duster Guns



Variety of air duster blow gun options to suit different workshop requirements. Different material grades and trigger styles are available.

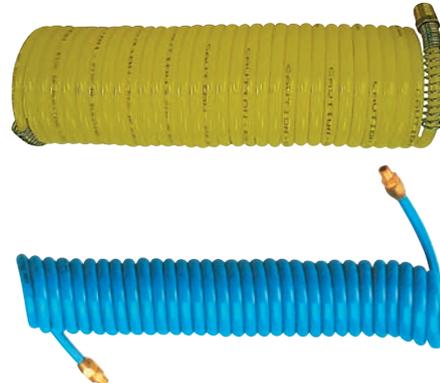


Mfr No.	Model Description	Part Number
▶ MP5143	Plastic pistol grip blowgun with narrow 3" extended nozzle	05768566
▶ MP3202	Metal lever action blowgun with extended 3 1/2" nozzle	05768481
▶ FCT308	Metal pistol grip blowgun	05763891

## Airline Fittings – Recoil Hoses



Nylon and Polyurethane Recoil Air Hoses offer excellent flexibility and retracts for improved storage.



Mfr No.	Type	Hose ID	Length	Part Number
■ MP2681	Nylon	1/4"	25 feet	05768379
■ MP2874	Nylon	1/4"	50 feet	05768396
■ MP5152	Polyurethane	3/8"	25 feet	05768600

## RELATED PRODUCT

### S93 Vented Ball Valve

▶ Part Number: 05578268



Go to Page  
**865**

**KEY:** ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## BRASS FITTINGS

Titon Airline Fittings are manufactured using a specially beaded barb design and are made from high quality Dezincification Resistant (DZR) brass alloy. These 6° barbs give exceptional sealing properties, while the end bead provides a shoulder preventing any longitudinal movement of the hose. Use with all rubber, PVC and flexible hoses, generally used where lower working pressures are encountered, although with correct selection of hose and clamp, higher pressures can be accommodated.

TITON



## Swivel Connector

Consists of Nut and Hose Barb



Hose Size ID mm	Thread Size in.	Mfr No.	Part Number
▶ 5	1/8 BSPP	2010302	05625341
▶ 5	1/4 BSPP	2010304	03571604
■ 6	1/4 BSPP	2010404	03563502
▶ 6	3/8 BSPP	2010406	03571905
■ 8	1/4 BSPP	2010504	03563706
▶ 8	3/8 BSPP	2010506	03572108
▶ 10	1/4 BSPP	2010604	03622401
▶ 10	3/8 BSPP	2010606	03563900
▶ 10	1/2 BSPP	2010608	03564501
▶ 13	3/8 BSPP	2010806	03564006
▶ 13	1/2 BSPP	2010808	03564103
▶ 19	3/4 BSPP	2011212	03564307
▶ 25	1 BSPP	2011616	05625324

## Male Elbow



TITON

Hose Size ID mm	Thread Size in.	Mfr No.	Part Number
▶ 5	1/8 BSPT	2020302	03545009
▶ 6	1/8 BSPT	2020402	03545106
■ 6	1/4 BSPT	2020404	03545203
▶ 8	1/8 BSPT	2020502	03545300
■ 8	1/4 BSPT	2020504	03619207
▶ 10	1/8 BSPT	2020602	03545407
■ 10	1/4 BSPT	2020604	03545504
■ 10	3/8 BSPT	2020606	08900018
▶ 13	1/4 BSPT	2020804	05625749
■ 13	3/8 BSPT	2020806	05625766
■ 13	1/2 BSPT	2020808	03545601
▶ 16	3/8 BSPT	2021006	05625528
▶ 16	1/2 BSPT	2021008	05625545
▶ 19	3/4 BSPT	2021212	05625562
▶ 25	3/4 BSPT	2021612	05625579

## Airline Tee



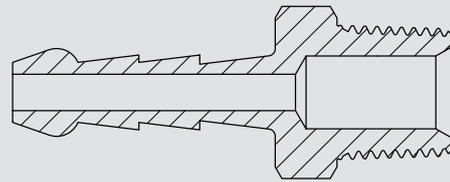
TITON

Hose Size ID mm	Mfr No.	Part Number
■ 5	20303	03548608
■ 6	20304	03548705
■ 8	20305	03548802
■ 10	20306	03548909
■ 13	20308	03549005
▶ 16	20310	05625800
▶ 19	20312	03548307
● 25	20316	02971947

## PRODUCT INSIGHT

## TITON Airline Fittings

TITON



Using a special beaded barb design, TITON airline fittings provide unparalleled security against the hose pulling off the barb. They are available in sizes ranging from 3/16" to 1", and are manufactured from high quality DZR brass alloy.

## ADVANTAGES

Almost impossible to pull hose off. The 6° barbs give exceptional sealing properties, while the end bead provides a shoulder preventing any longitudinal movement of the hose. For added integrity two hose clips may be used.

## APPLICATIONS

Use with all rubber, plastic and other flexible hoses. Generally used where lower pressures (750 kPa) are encountered, although with the correct selection of hose and clamp, higher pressures can be accommodated.

## WORKING PRESSURES

TITON AirLine Fittings should be used where lower pressures exist (1000 kPa [145 PSI] maximum).

## ASSEMBLY

- I. Slide clamp onto hose.
- II. Push hose fully onto barb.
- III. Position clamp in the centre of the barb and tighten.

## SPECIAL SIZES

Other sizes not specified are available upon request.

## Airline Joiner

TITON



Hose Size ID mm	Mfr No.	Part Number
■ 5	20503	03562600
■ 6	20504	03562707
■ 8	20505	03562804
■ 10	20506	03562901
■ 13	20508	03563007
■ 16	20510	05625953
▶ 19	20512	03622304
▶ 25	20516	05625987

# BRASS PIPE FITTINGS

## Male Branch Tee



Hose Size ID mm	Thread Size in.	Mfr No.	Part Number
▶ 6	1/8 BSPT	2060402	<b>05626089</b>
▶ 6	1/4 BSPT	2060404	<b>05626106</b>
▶ 8	1/8 BSPT	2060502	<b>05626123</b>
▶ 8	1/4 BSPT	2060504	<b>05626140</b>
▶ 10	1/4 BSPT	2060604	<b>05626157</b>
▶ 13	3/8 BSPT	2060806	<b>05626174</b>
▶ 13	1/2 BSPT	2060808	<b>05626191</b>

## Female Connector



Hose Size ID mm	Thread Size in.	Mfr No.	Part Number
● 5	1/8 BSPP	2070302	<b>03622100</b>
■ 6	1/8 BSPP	2070402	<b>03561106</b>
■ 6	1/4 BSPP	2070404	<b>03561407</b>
▶ 6	3/8 BSPP	2070406	<b>05626259</b>
▶ 8	1/8 BSPP	2070502	<b>03569603</b>
■ 8	1/4 BSPP	2070504	<b>03561504</b>
■ 8	3/8 BSPP	2070506	<b>03561902</b>
▶ 8	1/2 BSPP	2070508	<b>03562309</b>
▶ 10	1/8 BSPP	2070602	<b>05626344</b>
■ 10	1/4 BSPP	2070604	<b>03561601</b>
■ 10	3/8 BSPP	2070606	<b>03562008</b>
▶ 10	1/2 BSPP	2070608	<b>00862556</b>
■ 13	1/4 BSPP	2070804	<b>03561708</b>
▶ 13	3/8 BSPP	2070806	<b>03562105</b>
■ 13	1/2 BSPP	2070808	<b>03562503</b>
▶ 19	3/4 BSPP	2071212	<b>05626208</b>

## Swivel Male Connector



Hose is free to rotate independently



Hose Size ID mm	Thread Size in.	Mfr No.	Part Number
▶ 6	1/4 BSPT	209ST0404	<b>03579101</b>
▶ 10	3/8 BSPT	209ST0606	<b>03579208</b>
▶ 13	1/2 BSPT	209ST0808	<b>03579402</b>
▶ 19	3/4 BSPT	209ST1212	<b>03579509</b>

## Male Connector



Hose Size ID mm	Thread Size in.	Mfr No.	Part Number
■ 5	1/8 BSPT	2090302	<b>03558708</b>
■ 5	1/4 BSPT	2090304	<b>03559202</b>
■ 6	1/8 BSPT	2090402	<b>03558805</b>
■ 6	1/4 BSPT	2090404	<b>03559309</b>
■ 6	3/8 BSPT	2090406	<b>00817953</b>
▶ 6	1/2 BSPT	2090408	<b>03560107</b>
■ 8	1/8 BSPT	2090502	<b>03558902</b>
■ 8	1/4 BSPT	2090504	<b>03559406</b>
■ 8	3/8 BSPT	2090506	<b>03559804</b>
■ 8	1/2 BSPT	2090508	<b>03560204</b>
■ 10	1/8 BSPT	2090602	<b>03559008</b>
■ 10	1/4 BSPT	2090604	<b>03559503</b>
■ 10	3/8 BSPT	2090606	<b>03559901</b>
■ 10	1/2 BSPT	2090608	<b>03560301</b>
▶ 10	3/4 BSPT	2090612	<b>05626837</b>
▶ 13	1/8 BSPT	2090802	<b>03559105</b>
■ 13	1/4 BSPT	2090804	<b>03559600</b>
■ 13	3/8 BSPT	2090806	<b>03560000</b>
■ 13	1/2 BSPT	2090808	<b>03560408</b>
■ 13	3/4 BSPT	2090812	<b>03560602</b>
▶ 16	1/4 BSPT	2091004	<b>05335156</b>
■ 16	3/8 BSPT	2091006	<b>00017918</b>
■ 16	1/2 BSPT	2091008	<b>00018037</b>
▶ 16	3/4 BSPT	2091012	<b>04101954</b>
▶ 19	3/8 BSPT	2091206	<b>05418215</b>
■ 19	1/2 BSPT	2091208	<b>03560505</b>
■ 19	3/4 BSPT	2091212	<b>03560709</b>
■ 19	1 BSPT	2091216	<b>03560903</b>
▶ 25	1/2 BSPT	2091608	<b>05626650</b>
■ 25	3/4 BSPT	2091612	<b>03560806</b>
■ 25	1 BSPT	2091616	<b>03561009</b>

## Fuel Filter Hose Adaptor



Hose Size ID mm	Thread Size in.	Mfr No.	Part Number
● 6	1/2 x 20 TPI	6C-0405	<b>05558786</b>
▶ 8	1/2 x 20 TPI	6C-0505	<b>05558820</b>
▶ 10	1/2 x 20 TPI	6C-0605	<b>05558837</b>

## FITTINGS - SCREWED PIPE - BRASS

Standard Titon Brass Pipe Fittings are manufactured with female R series and male BSPT threads in accordance with AS1722. These robust fittings are available in a comprehensive range of sizes and are manufactured from high quality Dezincification Resistant (DZR) brass alloy.



## Hex Plug Solid



Size inch	Mfr No.	Part Number
■ 1/8	315202S	<b>03310001</b>
■ 1/4	315204S	<b>03310108</b>
■ 3/8	315206S	<b>00828257</b>
■ 1/2	315208S	<b>03310302</b>
▶ 3/4	315212S	<b>03310409</b>
▶ 1	315216S	<b>03310506</b>

## Male to Female Adaptor



Size inch	Mfr No.	Part Number
▶ 1/8	32000202	<b>03340204</b>
■ 1/4 x 1/8	32000402	<b>03285505</b>
■ 1/4	32000404	<b>03340301</b>
▶ 3/8 x 1/8	32000602	<b>03848803</b>
■ 3/8 x 1/4	32000604	<b>03285602</b>
▶ 3/8	32000606	<b>03340408</b>
■ 1/2 x 1/4	32000804	<b>03285709</b>
■ 1/2 x 3/8	32000806	<b>03285806</b>
■ 1/2	32000808	<b>03340505</b>
▶ 3/4 x 1/4	32001204	<b>05627296</b>
▶ 3/4 x 3/8	32001206	<b>05627313</b>
■ 3/4 x 1/2	32001208	<b>03285903</b>

## Reducing Bush



Size inch	Mfr No.	Part Number
■ 1/4 x 1/8	32240402	<b>03296002</b>
■ 3/8 x 1/8	32240602	<b>03296109</b>
■ 3/8 x 1/4	32240604	<b>03296206</b>
■ 1/2 x 1/8	32240802	<b>03296303</b>
■ 1/2 x 1/4	32240804	<b>03296400</b>
■ 1/2 x 3/8	32240806	<b>03296507</b>
● 3/4 x 1/8	32241202	<b>03296604</b>
■ 3/4 x 1/4	32241204	<b>03296701</b>
■ 3/4 x 3/8	32241206	<b>03296808</b>
■ 3/4 x 1/2	32241208	<b>03296905</b>
▶ 1 x 3/8	32241606	<b>03297108</b>
▶ 1 x 1/2	32241608	<b>03297205</b>
■ 1 x 3/4	32241612	<b>03297302</b>

KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## Hex Socket



Size inch	Mfr No.	Part Number
■ 1/8	330002	03313008
■ 1/4	330004	03313105
■ 3/8	330006	03292006
■ 1/2	330008	03292103
■ 3/4	330012	03292200
▶ 1	330016	03292307

## Reducing Socket



Size inch	Mfr No.	Part Number
■ 1/4 x 1/8	33040402	03314308
▶ 3/8 x 1/8	33040602	03646005
■ 3/8 x 1/4	33040604	03314405
▶ 1/2 x 1/8	33040802	00018173
■ 1/2 x 1/4	33040804	03314502
■ 1/2 x 3/8	33040806	03314609
▶ 3/4 x 3/8	33041206	03314706
▶ 3/4 x 1/2	33041208	03314803
● 1 X 3/4	33041612	02551719

## Reducing Nipple



Size inch	Mfr No.	Part Number
■ 1/4 x 1/8	33240402	03307108
■ 3/8 x 1/8	33240602	03307205
■ 3/8 x 1/4	33240604	03307302
▶ 1/2 x 1/8	33240802	03307409
■ 1/2 x 1/4	33240804	03307506
■ 1/2 x 3/8	33240806	03307603
■ 3/4 x 1/4	33241204	03307700
▶ 3/4 x 3/8	33241206	03307807
■ 3/4 x 1/2	33241208	03307904
▶ 1 x 1/2	33241608	02733113
▶ 1 x 3/4	33241612	03308107

## Hex Nipple



Size inch	Mfr No.	Part Number
■ 1/8	332502	03305906
■ 1/4	332504	03306002
■ 3/8	332506	03306109
■ 1/2	332508	03306206
▶ 3/4	332512	03306303
▶ 1	332516	03306400

## Long Barrel Nipple



Size inch	Mfr No.	Part Number
■ 1/8 x 1 1/2	3327021.5	03214877
■ 1/8 x 2	3327022	02971828
▶ 1/8 x 2 1/2	3327022.5	03284322
■ 1/8 x 3	3327023	02971845
■ 1/4 x 1 1/2	3327041.5	02943505
■ 1/4 x 2	3327042	05628299
▶ 1/4 x 2 1/2	3327042.5	05628316
■ 1/4 x 3	3327043	02971879
▶ 3/8 x 1 1/2	3327061.5	05628350
■ 3/8 x 2	3327062	05628367
▶ 3/8 x 2 1/2	3327062.5	05628384
▶ 3/8 x 3	3327063	05628401
■ 1/2 x 2	3327082	05628435
▶ 1/2 x 2 1/2	3327082.5	03423688
▶ 1/2 x 3	3327083	05628452

## Barrel Nipple



Size inch	Mfr No.	Part Number
▶ 1/8	332602	03308806
■ 1/4	332604	03308903
■ 3/8	332606	03309009
■ 1/2	332608	03309106
▶ 3/4	332612	03309203

## Female 90° Elbow



Size inch	Mfr No.	Part Number
■ 1/8	350002	03303500
■ 1/4	350004	03303607
■ 3/8	350006	03303704
■ 1/2	350008	03303801

## Male to Female 90° Elbow



Size inch	Mfr No.	Part Number
■ 1/8	340002	03304703
■ 1/4	340004	03304800
■ 3/8	340006	03304907
■ 1/2	340008	03305003

## Male 90° Elbow



Size inch	Mfr No.	Part Number
▶ 1/8	36000202	02957504
▶ 1/4	36000404	02957708
▶ 3/8	36000606	02957902
▶ 1/2 x 3/8	36000806	05628656
▶ 1/2	36000808	02958008

## Female Tee



Size inch	Mfr No.	Part Number
■ 1/8	370002	03316209
■ 1/4	370004	03316306
■ 3/8	370006	03293005
■ 1/2	370008	03293102

## Female Cross



Size inch	Mfr No.	Part Number
▶ 1/8	390002	02949800
▶ 1/4	390004	05628775
▶ 3/8	390006	05628792
▶ 1/2	390008	05628809

## Male Run/Female Tee



Size inch	Mfr No.	Part Number
▶ 1/8	400002	02971862
▶ 1/4	400004	05628826
▶ 3/8	400006	05628843

## Bulkhead Union



Size	Mfr No.	Part Number
▶ 5/8 UNF Male x 1/8 BSPT	BU02	05631954
▶ 3/4 UNF Male x 1/4 BSPT	BU04	05668697
● 7/8 UNF Male x 3/8 BSPT	BU06	05632005

# BRASS COMPRESSION FITTINGS

## FITTINGS - COMPRESSION TUBE

### COMPRESSION FITTINGS

Titon Compression Fittings are designed to comply with established industry standards and are made from high quality Dezincification Resistant (DZR) brass alloy. Simple to assemble; no soldering, no flaring or deburring is necessary. May be used with copper, aluminium, brass and plastic tubing. Use with steel tubing is not recommended. Installation should be where low to medium pressures are encountered. Suitable for use with hazardous liquids, oils and fuels. Not recommended for use with gas.



### Sleeve

For all materials, ideal for nylon



Tube Size (OD)	Mfr No.	Part Number
▶ 1/8"	60N02	03022108
▶ 3/16"	60N03	03022302
▶ 1/4"	60N04	03022409
▶ 5/16"	60N05	03022506
▶ 3/8"	60N06	03022603
▶ 1/2"	60N08	03022700
▶ 5/8"	60N10	03022807
▶ 3/4"	60N12	03022904
▶ 4mm	M6N04	05632141
▶ 6mm	M6N06	02900302
▶ 8mm	M6N08	04866801
▶ 10mm	M6N10	04866852
● 12mm	M6N12	05632209

### Sleeve

Ideal for copper



Tube Size (OD)	Mfr No.	Part Number
▶ 1/8"	6002	02900001
▶ 3/16"	6003	02900108
▶ 1/4"	6004	02900409
▶ 5/16"	6005	02900506
▶ 3/8"	6006	02900603
▶ 1/2"	6008	02900807
▶ 5/8"	60010	05630356

### Hose Insert



Tube ID	Thread Size (or tube)	Mfr No.	Part Number
▶ 3/16"	3.10mm	26103	03044500
▶ 1/4"	3.86mm	26104	03044607
● 5/16"	5.03mm	26105	03044704
● 3/8"	5.84mm	26106	03044801
● 1/2"	9.14mm	26108	05627177
● 5/8"	12.20mm	26110	05627109

### Compression Nut



Tube Size (OD)	Mfr No.	Part Number
▶ 1/8"	6102	02362319
▶ 3/16"	6103	02901301
▶ 1/4"	6104	02901505
▶ 5/16"	6105	02901602
▶ 3/8"	6106	02901709
▶ 1/2"	6108	02901903
▶ 6mm	M6106	05632243
● 8mm	M6108	05632260
▶ 10mm	M6110	05632277
● 12mm	M6112	05632294

### Double Union

With 60N sleeves & 61 nuts



Tube Size (OD)	Mfr No.	Part Number
▶ 1/8"	6202	02905006
■ 3/16"	6203	02905103
■ 1/4"	6204	02905307
■ 5/16"	6205	02905608
■ 3/8"	6206	02905802
■ 1/2"	6208	02900005
▶ 5/8"	6210	08053318
▶ 3/4"	6212	05630747
▶ 4mm	M6204	05632311
▶ 6mm	M6206	05632328
▶ 8mm	M6208	05632345
▶ 10mm	M6210	05632362
▶ 12mm	M6212	05632379

### Union Tee



Tube Size (OD)	Mfr No.	Part Number
● 1/8"	6402	02926205
▶ 3/16"	6403	02926302
■ 1/4"	6404	02926409
▶ 5/16"	6405	02926506
■ 3/8"	6406	02926603
▶ 1/2"	6408	02926807
▶ 5/8"	6410	01490208
▶ 3/4"	6412	01490305
● 6mm	M6406	05632396
● 8mm	M6408	05632413
▶ 10mm	M6410	05632430
▶ 12mm	M6412	05632447

### Reducing Union



Tube Size (OD)	Mfr No.	Part Number
● 1/4" x 3/16"	62R0403	08897118
● 3/8" x 5/16"	62R0605	08052717
▶ 1/2" x 1/4"	62R0804	08902511
▶ 1/2" x 3/8"	62R0806	02905909

### Union Elbow



Tube Size (OD)	Mfr No.	Part Number
● 1/8"	6502	02921103
● 3/16"	6503	02921200
▶ 1/4"	6504	02921307
▶ 5/16"	6505	02921404
▶ 3/8"	6506	02921501
▶ 1/2"	6508	02921608
▶ 5/8"	6510	03032208

### Female Connector



Tube Size (OD)	Thread Size (or tube)	Mfr No.	Part Number
▶ 1/8"	1/8" BSPP	660202	03694507
▶ 3/16"	1/8" BSPP	660302	02919704
▶ 1/4"	1/8" BSPP	660402	02919801
▶ 1/4"	1/4" BSPP	660404	02919908
● 1/4"	3/8" BSPP	660406	00215696
● 1/4"	1/2" BSPP	660408	05631053
▶ 5/16"	1/8" BSPP	660502	02920007
▶ 5/16"	1/4" BSPP	660504	02920104
● 5/16"	3/8" BSPP	660506	05631104
● 3/8"	1/8" BSPP	660602	05631121
▶ 3/8"	1/4" BSPP	660604	02920308
▶ 3/8"	3/8" BSPP	660606	02920405
▶ 3/8"	1/2" BSPP	660608	08058614
▶ 1/2"	3/8" BSPP	660806	02920502
▶ 1/2"	1/2" BSPP	660808	02920609

### Female Elbow



Tube Size (OD)	Thread Size (or tube)	Mfr No.	Part Number
● 1/4"	1/8" BSPP	700402	02724517
● 3/8"	1/4" BSPP	700604	05631869
● 1/2"	3/8" BSPP	700806	05631886

KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## Male Connector



Tube Size (OD)	Thread Size (or tube)	Mfr No.	Part Number
▶ 1/8"	1/8" BSPT	680202	<b>02902300</b>
▶ 1/8"	1/4" BSPT	680204	<b>03156771</b>
▶ 3/16"	1/8" BSPT	680302	<b>02902407</b>
● 3/16"	1/4" BSPT	680304	<b>03693003</b>
■ 1/4"	1/8" BSPT	680402	<b>02902601</b>
■ 1/4"	1/4" BSPT	680404	<b>02902708</b>
▶ 1/4"	3/8" BSPT	680406	<b>02902805</b>
▶ 1/4"	1/2" BSPT	680408	<b>02902902</b>
▶ 5/16"	1/8" BSPT	680502	<b>02903008</b>
■ 5/16"	1/4" BSPT	680504	<b>02903105</b>
▶ 5/16"	3/8" BSPT	680506	<b>02903202</b>
▶ 5/16"	1/2" BSPT	680508	<b>05631410</b>
▶ 3/8"	1/8" BSPT	680602	<b>02903406</b>
■ 3/8"	1/4" BSPT	680604	<b>02903503</b>
■ 3/8"	3/8" BSPT	680606	<b>02903600</b>
▶ 3/8"	1/2" BSPT	680608	<b>02903707</b>
▶ 1/2"	1/4" BSPT	680804	<b>02903901</b>
▶ 1/2"	3/8" BSPT	680806	<b>02904007</b>
▶ 1/2"	1/2" BSPT	680808	<b>02904104</b>
▶ 1/2"	3/4" BSPT	680812	<b>01442117</b>
▶ 5/8"	3/8" BSPT	681006	<b>00216036</b>
▶ 5/8"	1/2" BSPT	681008	<b>05631563</b>
● 3/4"	1/2" BSPT	681208	<b>05631597</b>
● 3/4"	3/4" BSPT	681212	<b>01437204</b>
● 4mm	1/8" BSPT	M680402	<b>04866954</b>
● 6mm	1/8" BSPT	M680602	<b>04867005</b>
● 6mm	1/4" BSPT	M680604	<b>04867056</b>
● 6mm	3/8" BSPT	M680606	<b>05632498</b>
▶ 8mm	1/4" BSPT	M680804	<b>04867107</b>
▶ 8mm	3/8" BSPT	M680806	<b>05632532</b>
▶ 10mm	1/4" BSPT	M681004	<b>04867209</b>
▶ 10mm	3/8" BSPT	M681006	<b>04867226</b>
● 12mm	1/4" BSPT	M681204	<b>05632583</b>
● 12mm	3/8" BSPT	M681206	<b>05632600</b>
● 12mm	1/2" BSPT	M681208	<b>05632617</b>

## Union Male Run Tee



Tube Size (OD)	Thread Size (or tube)	Mfr No.	Part Number
● 3/16"	1/8" BSPP	710302	<b>03035108</b>
▶ 1/4"	1/8" BSPP	710402	<b>02924605</b>
▶ 3/8"	1/4" BSPP	710604	<b>02925002</b>
▶ 1/2"	3/8" BSPP	710806	<b>03035506</b>

## Union Male Branch Tee



Tube Size (OD)	Thread Size (or tube)	Mfr No.	Part Number
● 1/8"	1/8" BSPP	720202	<b>05631903</b>
● 3/16"	1/8" BSPP	720302	<b>03650509</b>
● 1/4"	1/8" BSPP	720402	<b>03650606</b>
● 1/4"	1/4" BSPP	720404	<b>03650703</b>
▶ 5/16"	1/8" BSPP	720502	<b>03650800</b>
▶ 5/16"	1/4" BSPP	720504	<b>03650907</b>
● 3/8"	1/4" BSPP	720604	<b>02922607</b>
● 1/2"	3/8" BSPP	720806	<b>02922908</b>

## TITON FLARE FITTINGS



Titon 45° Flare Fittings are manufactured especially for use with hazardous liquids and gases and are made from high quality DZR brass alloy. All flare fittings conform to the following standards: AS D26, AS3688, AG 601-1995, NZG 1993/76. May be used with copper, aluminium, brass and flareable steel tubing. For improved resistance to mechanical vibration, the long flare nut may be used. Ideal for use with fuel, oil, air, water and natural gas lines. In applications where temperature extremes are encountered it is recommended that the stress relieved fittings are used.

## Male Elbow



Tube Size (OD)	Thread Size (or tube)	Mfr No.	Part Number
▶ 1/8"	1/8" BSPT	690202	<b>02906500</b>
▶ 3/16"	1/8" BSPT	690302	<b>02906607</b>
■ 1/4"	1/8" BSPT	690402	<b>02906704</b>
■ 1/4"	1/4" BSPT	690404	<b>02906801</b>
▶ 1/4"	3/8" BSPT	690406	<b>02906908</b>
▶ 5/16"	1/8" BSPT	690502	<b>02907101</b>
■ 5/16"	1/4" BSPT	690504	<b>02907208</b>
▶ 3/8"	1/8" BSPT	690602	<b>02907509</b>
■ 3/8"	1/4" BSPT	690604	<b>02907606</b>
■ 3/8"	3/8" BSPT	690606	<b>02907703</b>
▶ 3/8"	1/2" BSPT	690608	<b>02907800</b>
▶ 1/2"	3/8" BSPT	690806	<b>02908003</b>
▶ 1/2"	1/2" BSPT	690808	<b>02908100</b>
▶ 4mm	1/8" BSPT	M690402	<b>04866189</b>
● 4mm	1/4" BSPT	M690404	<b>04866206</b>
● 6mm	1/8" BSPT	M690602	<b>04866257</b>
▶ 6mm	1/4" BSPT	M690604	<b>04866274</b>
▶ 8mm	1/4" BSPT	M690804	<b>04866308</b>

## Short Flare Nut



Tube Size (OD)	Mfr No.	Part Number
● 1/8"	41S02	<b>05628996</b>
▶ 3/16"	41S03	<b>05629013</b>
▶ 1/4"	41S04	<b>02910305</b>
▶ 5/16"	41S05	<b>02910606</b>
▶ 3/8"	41S06	<b>02911003</b>
▶ 1/2"	41S08	<b>02911401</b>
● 5/8"	41S10	<b>08055510</b>
● 3/4"	41S12	<b>05628979</b>

## Long Flare Nut



Improved vibration resistance



Tube Size (OD)	Mfr No.	Part Number
● 1/8"	4102	<b>05628860</b>
▶ 3/16"	4103	<b>03486401</b>
▶ 1/4"	4104	<b>03486508</b>
▶ 5/16"	4105	<b>03486605</b>
▶ 3/8"	4106	<b>03486702</b>
● 1/2"	4108	<b>03486809</b>

## Double Flare Union



Tube Size (OD)	Mfr No.	Part Number
● 1/8"	4202	<b>02931106</b>
▶ 3/16"	4203	<b>02931203</b>
▶ 1/4"	4204	<b>02931407</b>
▶ 5/16"	4205	<b>02931902</b>
▶ 3/8"	4206	<b>02932202</b>
▶ 1/2"	4208	<b>02932503</b>
▶ 5/8"	4210	<b>02932804</b>

## Flare Tee



Tube Size (OD)	Mfr No.	Part Number
● 1/8"	4402	<b>02934307</b>
● 3/16"	4403	<b>02934404</b>
● 1/4"	4404	<b>02934501</b>
● 5/16"	4405	<b>02934705</b>
▶ 3/8"	4406	<b>02934909</b>
● 1/2"	4408	<b>02935306</b>
● 5/8"	4410	<b>02935607</b>

# BRASS FLARE TUBE FITTINGS

## Flare Male Branch Tee



Tube Size (OD)	Thread Size	Mfr No.	Part Number
● 1/8"	1/8" BSPT	450202	0555199
● 3/16"	1/8" BSPT	450302	02935908
● 1/4"	1/8" BSPT	450402	02936004
▶ 5/16"	1/8" BSPT	450502	02936305
▶ 3/8"	1/4" BSPT	450604	02936703
● 1/2"	3/8" BSPT	450806	02937100

## Flare Female Connector



Tube Size (OD)	Thread Size	Mfr No.	Part Number
▶ 1/8"	1/8" BSPP	460202	05629387
▶ 3/16"	1/8" BSPP	460302	02928601
▶ 1/4"	1/8" BSPP	460402	02929008
▶ 1/4"	1/4" BSPP	460404	02929105
● 1/4"	3/8" BSPP	460406	02929202
● 5/16"	1/8" BSPP	460502	02929503
▶ 5/16"	1/4" BSPP	460504	02929406
▶ 3/8"	1/8" BSPP	460602	02929804
▶ 3/8"	1/4" BSPP	460604	02929901
▶ 3/8"	3/8" BSPP	460606	01153202
▶ 3/8"	1/2" BSPP	460608	02930107
▶ 1/2"	1/4" BSPP	460804	02930204
▶ 1/2"	3/8" BSPP	460806	02930301
▶ 1/2"	1/2" BSPP	460808	02930408
▶ 3/4"	1/2" BSPP	461208	00000901

## Flare Male Connector



Tube Size (OD)	Thread Size (or tube)	Mfr No.	Part Number
▶ 1/8"	1/8" BSPT	480202	02912604
▶ 3/16"	1/8" BSPT	480302	02912701
▶ 3/16"	1/4" BSPT	480304	02912808
▶ 1/4"	1/8" BSPT	480402	02913108
▶ 1/4"	1/4" BSPT	480404	02913205
▶ 1/4"	3/8" BSPT	480406	02913302
▶ 1/4"	1/2" BSPT	480408	02913409
▶ 5/16"	1/8" BSPT	480502	03658103
▶ 5/16"	1/4" BSPT	480504	02913506
▶ 5/16"	3/8" BSPT	480506	02913603
▶ 3/8"	1/8" BSPT	480602	02913807
▶ 3/8"	1/4" BSPT	480604	02913904
▶ 3/8"	3/8" BSPT	480606	02914000
▶ 3/8"	1/2" BSPT	480608	02914107
▶ 1/2"	1/4" BSPT	480804	02914408
▶ 1/2"	3/8" BSPT	480806	02914505
▶ 1/2"	1/2" BSPT	480808	02914602
▶ 3/4"	1/2" BSPT	481208	02915203
▶ 3/4"	3/4" BSPT	481212	02915300

## Flare Male Elbow



Tube Size (OD)	Thread Size (or tube)	Mfr No.	Part Number
▶ 3/16"	1/8" BSPT	490302	02915708
▶ 1/4"	1/8" BSPT	490402	02915805
▶ 1/4"	1/4" BSPT	490404	02915902
▶ 1/4"	3/8" BSPT	490406	02916008
▶ 5/16"	1/8" BSPT	490502	02916202
▶ 5/16"	1/4" BSPT	490504	02916309
● 3/8"	1/8" BSPT	490602	02916600
▶ 3/8"	1/4" BSPT	490604	02916707
▶ 3/8"	3/8" BSPT	490606	02916804
● 3/8"	1/2" BSPT	490608	02916901
● 1/2"	1/4" BSPT	490804	02917007
● 1/2"	3/8" BSPT	490806	02917104
▶ 1/2"	1/2" BSPT	490808	01152504
▶ 3/4"	1/2" BSPT	491208	02917706

## Flare Female Elbow



Tube Size (OD)	Thread Size	Mfr No.	Part Number
● 1/8"	1/8" BSPT	500202	05630152
● 1/4"	1/8" BSPT	500402	02949004
▶ 3/8"	3/8" BSPT	500606	02949402

## Double Flare 90° Elbow



Tube Size (OD)	Mfr No.	Part Number
● 1/8"	5502	05555284
● 3/16"	5503	02933308
● 1/4"	5504	02933405
● 5/16"	5505	02933609
● 3/8"	5506	02933706
● 1/2"	5508	02933900

## Gas Flare Assembly



Consists of GFN nut & GFM connector



Tube Size (OD)	Thread Size (or tube)	Mfr No.	Part Number
▶ 10mm	3/8" BSPT	GFC1006	05554434
▶ 10mm	1/2" BSPT	GFC1008	05554451
▶ 15mm	1/2" BSPT	GFC1508	05554468
▶ 20mm	3/4" BSPT	GFC2012	05554485

## Gas Flare Female Connector



Stress Relieved



Tube Size (OD)	Thread Size (or tube)	Mfr No.	Part Number
● 15mm	1/2" BSPT	GFF1508	05632056
● 20mm	3/4" BSPT	GFF2012	05632073

## Gas Flare Nut



Stress Relieved



Tube Size (OD)	Mfr No.	Part Number
● 10mm	GFN10	05632090
● 15mm	GFN15	05632107
● 20mm	GFN20	05632124

## Inverted Flare Nut



Tube Size (OD)	Mfr No.	Part Number
● 3/16"	10503	05789136
● 1/4"	10504	02962201
● 5/16"	10505	02962308
● 3/8"	10506	02962405

## Inverted Flare Male Connector

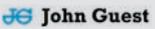


Tube Size (OD)	Thread Size (or tube)	Mfr No.	Part Number
● 3/16"	1/8" BSPT	2000302	05625239
▶ 1/4"	1/8" BSPT	2000402	02965509
▶ 1/4"	1/4" BSPT	2000404	05625273
▶ 5/16"	1/8" BSPT	2000502	02965703
▶ 5/16"	1/4" BSPT	2000504	05625290
● 3/8"	1/4" BSPT	2000604	02965800

KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## FITTINGS – PNEUMATIC PUSH FIT

### SPEEDFIT PNEUMATIC FITTINGS

John Guest Metric RM  series fittings have SuperThread, a unique thread seal developed by John Guest UK to enable male thread adaptors to be used with a variety of female thread forms. These fittings can be used with BSPP, BSPT, NPTF, PF and PT metal thread forms. The special polyurethane seal feature means no sealant need be applied to make an airtight joint. To make a connection, the tube is simply pushed in by hand; the unique John Guest collet locking system holds the tube firmly in place without deforming it or restricting flow. Sizes up to 8mm are suitable for a maximum working pressure of 16 bar @ 20°C; 10mm & 12mm sizes are rated to 10 bar @ 20°C. This is a selection of the most commonly used parts, for details of the more extensive range please contact our branch sales teams for details.

#### Straight Adaptor



Mfr No.	Size	Part Number
▶ RM010411	4mm x 1/8"	05559993
▶ RM010412	4mm x 1/4"	05560010
▶ RM010611	6mm x 1/8"	05560078
▶ RM010612	6mm x 1/4"	05560095
▶ RM010811	8mm x 1/8"	05560129
▶ RM010812	8mm x 1/4"	05560146
▶ RM010813	8mm x 3/8"	05560163
▶ RM011012	10mm x 1/4"	05560180
▶ RM011013	10mm x 3/8"	05560197
▶ RM011213	12mm x 3/8"	05560214
▶ RM011214	12mm x 1/2"	05560231

#### Equal Tee Connector



Mfr No.	Size	Part Number
▶ RM0204E	4mm	05554502
▶ RM0206E	6mm	05554536
▶ RM0208E	8mm	05554553
▶ RM0210E	10mm	05554570
▶ RM0212E	12mm	05554587

#### Elbow Connector



Mfr No.	Size	Part Number
▶ RM0304E	4mm	05554604
▶ RM0306E	6mm	05554638
▶ RM0308E	8mm	05554655
▶ RM0310E	10mm	05554672
▶ RM0312E	12mm	05554689

#### Straight Connector



Mfr No.	Size	Part Number
▶ RM0404E	4mm	05560248
▶ RM0406E	6mm	05560282
▶ RM0408E	8mm	05560299
▶ RM0410E	10mm	05560316
▶ RM0412E	12mm	05560333

#### Stem Adaptor



Mfr No.	Size	Part Number
● PM050401E	4mm x 1/8"	05312609
● PM050402E	4mm x 1/4"	03223106
● PM050601E	6mm x 1/8"	05312643
▶ PM050602E	6mm x 1/4"	05312660
▶ RM050612 Brass	6mm x 1/2"	03223123
▶ PM050801E	8mm x 1/8"	05312677
▶ PM050802E	8mm x 1/4"	05312694
▶ RM050812 Brass	8mm x 1/2"	03223140
▶ PM050803E	8mm x 3/8"	03223157
▶ PM051002E	10mm x 1/4"	05312711
▶ PM051003E	10mm x 3/8"	05312728
▶ PM051004E	10mm x 1/2"	03223174
▶ PM051203E	12mm x 3/8"	05312745
▶ PM051204E	12mm x 1/2"	05312762

#### Swivel Elbow



Mfr No.	Size	Part Number
▶ RM090411	4mm x 1/8"	05778851
▶ RM090412	4mm x 1/4"	06301720
▶ RM090611	6mm x 1/8"	05778885
▶ RM090612	6mm x 1/4"	05990671
▶ RM090811	8mm x 1/8"	05778919
▶ RM090812	8mm x 1/4"	05778936
▶ RM091012	10mm x 1/4"	05778970
▶ RM091013	10mm x 3/8"	05787980
▶ RM091213	12mm x 3/8"	05778987
▶ RM091214	12mm x 1/2"	05779004

#### Equal Divider



Mfr No.	Size	Part Number
▶ RM2306E	6mm	05560401
▶ RM2308E	8mm	05560418
▶ RM2312E	12mm	05560435

#### Banjo Flow Control



Mfr No.	Size	Part Number
● BFC360411E	4mm x 1/8"	05778681
▶ BFC360611E	6mm x 1/8"	05778698
● BFC360612E	6mm x 1/4"	05778715
● BFC360812E	8mm x 1/4"	05778732
● BFC361013E	10mm x 3/8"	06301669
● BFC361214E	12mm x 1/2"	06301686

#### T-Snips



Mfr No.	Part Number
▶ TSNIP	05560996

## TUBING – POLYETHYLENE

### LLDPE Polyethylene Tubing

Suitable for a wide range of temperatures and pressures, has a broad chemical compatibility and is made from non contaminating materials. Designed for pneumatics applications, light weight and very flexible. Available in a variety of colours to allow colour coding where required. All sizes rated to a maximum working pressure of 10 Bar

Outside Dia. mm	Inside Dia. m	Max. Lengths m	Part Number (Black)	Part Number (Blue)	Part Number (Natural)	Part Number (Red)
1/4	0.170	152			▶ 05778749	
5/16	0.187	152			▶ 05549402	
3/8	0.250	152			▶ 05549436	
1/2	0.375	76			▶ 05549453	
4	2.5	100	▶ 05549317	▶ 06568518	▶ 06568450	▶ 06568705
6	4.0	100	▶ 05549334	▶ 06568552	▶ 06568467	▶ 05549351
8	6.0	100	▶ 06568637	▶ 06568569	▶ 06568484	▶ 06568722
10	7.0	100	▶ 05778783	▶ 05778766	▶ 05549368	▶ 05549385
12	9.0	100	● 06568654	● 06568603	● 06568501	● 05549419



# PIPE FITTINGS – GALVANISED MALLEABLE

## FITTINGS – SCREWED PIPE – GALVANISED MALLEABLE

### IRON PIPE FITTINGS – GALVANISED MALLEABLE

Galvanised Malleable Iron Pipe fittings conform to ISO 49, JIS B2301, ANSI B16.3, BS 143 and 1256, and AS3673. Threads are to BS21 and AS1722. Galvanised fittings have average thickness of 86µm minimum or average coating weight of 610g/m<sup>2</sup>.

- Suitable for Air, Gas, Oil and Water at 120°C with a maximum working pressure of 24.5bar
- Suitable for Air, Gas, Oil and Water at 220°C with a maximum working pressure of 13.7bar
- Suitable for Air, Gas and Oil at 300°C with a maximum working pressure of 9.8bar



### Back Nut



Size mm	Size in.	Part Number
▶ 8	1/4"	03090305
▶ 10	3/8"	03090402
▶ 15	1/2"	03090509
▶ 20	3/4"	03090606
▶ 25	1"	03090703
▶ 32	1 1/4"	03090800
▶ 40	1 1/2"	03090907
▶ 50	2"	03091003
▶ 65	2 1/2"	03091100
▶ 80	3"	03091207
● 100	4"	03091304

### Cap



Size mm	Size in.	Part Number
▶ 8	1/4"	05417517
▶ 10	3/8"	03099500
▶ 15	1/2"	03099607
▶ 20	3/4"	03099704
▶ 25	1"	03099801
▶ 32	1 1/4"	03099908
▶ 40	1 1/2"	03100004
▶ 50	2"	03100101
▶ 65	2 1/2"	03100208
▶ 80	3"	03100305
▶ 100	4"	03100402

### Bend 90° and 45°



#### Male x Female 90°

Size mm	Size in.	Part Number
▶ 8	1/4"	03097405
▶ 10	3/8"	03097502
▶ 15	1/2"	03097609
▶ 20	3/4"	03097706
▶ 25	1"	03097803
▶ 32	1 1/4"	03097900
▶ 40	1 1/2"	03098006
▶ 50	2"	03098103
▶ 65	2 1/2"	03098200
▶ 80	3"	03098307
▶ 100	4"	03098404

#### Male x Female 45°

Size mm	Size in.	Part Number
● 25	1"	03096901
● 32	1 1/4"	03097007
● 40	1 1/2"	03097104
● 50	2"	03097201

#### Male x Male 90°

Size mm	Size in.	Part Number
▶ 20	3/4"	09900415
▶ 25	1"	09900716
▶ 32	1 1/4"	09901016
● 40	1 1/2"	09901210
● 50	2"	09901618

#### Female x Female 90°

Size mm	Size in.	Part Number
● 10	3/8"	02298218
▶ 15	1/2"	03091401
▶ 20	3/4"	03091508
▶ 25	1"	03091605
▶ 32	1 1/4"	03091702
▶ 40	1 1/2"	03091809
▶ 50	2"	03091906
▶ 65	2 1/2"	03092002
▶ 80	3"	03092109
▶ 100	4"	09238417

### Bush Reducing



Size mm	Size in.	Part Number
▶ 8 x 6	1/4" x 1/8"	03092206
▶ 10 x 6	3/8" x 1/8"	03092303
▶ 10 x 8	3/8" x 1/4"	03092400
▶ 15 x 8	1/2" x 1/4"	03092604
▶ 15 x 10	1/2" x 3/8"	03092701
▶ 20 x 8	3/4" x 1/4"	03092808
▶ 20 x 10	3/4" x 3/8"	03092905
▶ 20 x 15	3/4" x 1/2"	03093001
▶ 25 x 8	1" x 1/4"	03093108
▶ 25 x 10	1" x 3/8"	03093205
▶ 25 x 15	1" x 1/2"	03093302
▶ 25 x 20	1" x 3/4"	03093409
▶ 32 x 15	1 1/4" x 1/2"	03093603
▶ 32 x 20	1 1/4" x 3/4"	03093700
▶ 32 x 25	1 1/4" x 1"	03093807
▶ 40 x 15	1 1/2" x 1/2"	03093904
▶ 40 x 20	1 1/2" x 3/4"	03094000
▶ 40 x 25	1 1/2" x 1"	03094107
▶ 40 x 32	1 1/2" x 1 1/4"	03094204
▶ 50 x 15	2" x 1/2"	03094301
▶ 50 x 20	2" x 3/4"	03094408
▶ 50 x 25	2" x 1"	03094505
▶ 50 x 32	2" x 1 1/4"	03094602
▶ 50 x 40	2" x 1 1/2"	03094709
▶ 65 x 25	2 1/2" x 1"	03094903
▶ 65 x 32	2 1/2" x 1 1/4"	03629705
▶ 65 x 40	2 1/2" x 1 1/2"	00829052
▶ 65 x 50	2 1/2" x 2"	03095106
▶ 80 x 25	3" x 1"	03095203
▶ 80 x 32	3" x 1 1/4"	03095300
▶ 80 x 40	3" x 1 1/2"	03095407
▶ 80 x 50	3" x 2"	03095504
▶ 80 x 65	3" x 2 1/2"	03095601
▶ 100 x 50	4" x 2"	03096105
▶ 100 x 65	4" x 2 1/2"	03096202
▶ 100 x 80	4" x 3"	03096309

### Cross



Size mm	Size in.	Part Number
▶ 25	1"	03098909
▶ 32	1 1/4"	03099005
● 40	1 1/2"	03099102
▶ 50	2"	03099209
▶ 65	2 1/2"	03099306
▶ 80	3"	03099403

### Elbow Female x Female



#### Female x Female 90°

Size mm	Size in.	Part Number
▶ 8	1/4"	03100606
▶ 10	3/8"	03100703
▶ 15	1/2"	03100800
▶ 20	3/4"	03100907
▶ 25	1"	03101003
▶ 32	1 1/4"	03101100
▶ 40	1 1/2"	03102905
▶ 50	2"	03103001
▶ 65	2 1/2"	03103108
▶ 80	3"	03103205
▶ 100	4"	03640904

#### Female x Female 45°

Size mm	Size in.	Part Number
▶ 15	1/2"	03640700
▶ 20	3/4"	03640807
▶ 25	1"	03104301
▶ 32	1 1/4"	03692004
● 40	1 1/2"	03104408
▶ 50	2"	03104505
● 65	2 1/2"	09904518
● 80	3"	03104602
● 100	4"	03104709

KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## Elbow Male x Female



### Male x Female 90°

Size mm	Size in.	Part Number
6	1/8"	02972185
▶ 8	1/4"	03101304
▶ 10	3/8"	03101401
▶ 15	1/2"	03101508
▶ 20	3/4"	03629608
▶ 25	1"	03101702
▶ 32	1 1/4"	03101809
▶ 40	1 1/2"	03101906
▶ 50	2"	03102002
▶ 65	2 1/2"	03102109
▶ 80	3"	03102206
▶ 100	4"	03102400

### Male x Female 45°

Size mm	Size in.	Part Number
● 25	1"	09899513
● 32	1 1/4"	09899610
● 40	1 1/2"	01131004
● 50	2"	09899717

## Nipple Hex



Size mm	Size in.	Part Number
● 6	1/8"	03108006
▶ 8	1/4"	03108103
▶ 10	3/8"	03108200
▶ 15	1/2"	03108307
▶ 20	3/4"	03108404
▶ 25	1"	03108501
▶ 32	1 1/4"	03108608
▶ 40	1 1/2"	03108705
▶ 50	2"	03108802
▶ 65	2 1/2"	03108909
▶ 80	3"	03109005
▶ 100	4"	03109209

## Nipple Reducing



Size mm	Size in.	Part Number
▶ 10 x 8	3/8" x 1/4"	03109607
▶ 15 x 8	1/2" x 1/4"	03109704
▶ 15 x 10	1/2" x 3/8"	03109801
▶ 20 x 10	3/4" x 3/8"	03109908
▶ 20 x 15	3/4" x 1/2"	03110007
▶ 25 x 15	1" x 1/2"	03110104
▶ 25 x 20	1" x 3/4"	03110201
● 32 x 15	1 1/4" x 1/2"	09909717
▶ 32 x 20	1 1/4" x 3/4"	03110308
▶ 32 x 25	1 1/4" x 1"	03110405
▶ 40 x 15	1 1/2" x 1/2"	02298315
▶ 40 x 20	1 1/2" x 3/4"	03110502
▶ 40 x 25	1 1/2" x 1"	03110609
▶ 40 x 32	1 1/2" x 1 1/4"	03110706
▶ 50 x 20	2" x 3/4"	01049255
▶ 50 x 25	2" x 1"	03110803
▶ 50 x 32	2" x 1 1/4"	03110900
▶ 50 x 40	2" x 1 1/2"	03111006
▶ 65 x 40	2 1/2" x 1 1/2"	01049352
▶ 65 x 50	2 1/2" x 2"	03111103
▶ 80 x 50	3" x 2"	03111200
● 80 x 65	3" x 2 1/2"	03111307
▶ 100 x 50	4" x 2"	00154632
▶ 100 x 65	4" x 2 1/2"	01049454
▶ 100 x 80	4" x 3"	03111404

## Plug



Size mm	Size in.	Part Number
▶ 10	3/8"	00002771
▶ 15	1/2"	05799811
▶ 20	3/4"	03112607
▶ 25	1"	05799714
▶ 32	1 1/4"	03112801
▶ 40	1 1/2"	03112908
▶ 50	2"	03113004
▶ 65	2 1/2"	03113101
▶ 80	3"	03113208
▶ 100	4"	03113305

## Socket



Size mm	Size in.	Part Number
▶ 6	1/8"	08096618
▶ 8	1/4"	03113606
▶ 10	3/8"	03113703
▶ 15	1/2"	03113800
▶ 20	3/4"	03113907
▶ 25	1"	03114003
▶ 32	1 1/4"	03114100
▶ 40	1 1/2"	03114207
▶ 50	2"	03114304
▶ 65	2 1/2"	03114401
▶ 80	3"	03114508
▶ 100	4"	03676800

## Socket Reducing



Size mm	Size in.	Part Number
● 8 x 6	1/4" x 1/8"	00002635
▶ 10 x 8	3/8" x 1/4"	03115002
▶ 15 x 8	1/2" x 1/4"	03115109
▶ 15 x 10	1/2" x 3/8"	03115206
▶ 20 x 8	3/4" x 1/4"	01049556
▶ 20 x 10	3/4" x 3/8"	03115400
▶ 20 x 15	3/4" x 1/2"	03115303
▶ 25 x 10	1" x 3/8"	09238611
▶ 25 x 15	1" x 1/2"	03115507
▶ 25 x 20	1" x 3/4"	03115604
▶ 32 x 15	1 1/4" x 1/2"	03115701
▶ 32 x 20	1 1/4" x 3/4"	03115808
▶ 32 x 25	1 1/4" x 1"	03115905
● 40 x 15	1 1/2" x 1/2"	03116001
▶ 40 x 20	1 1/2" x 3/4"	03116108
▶ 40 x 25	1 1/2" x 1"	03116205
▶ 40 x 32	1 1/2" x 1 1/4"	03116302
▶ 50 x 15	2" x 1/2"	03116409
▶ 50 x 20	2" x 3/4"	03116506
▶ 50 x 25	2" x 1"	03116603
▶ 50 x 32	2" x 1 1/4"	03116700
▶ 50 x 40	2" x 1 1/2"	03116807
▶ 65 x 40	2 1/2" x 1 1/2"	03116904
▶ 65 x 50	2 1/2" x 2"	03117000
▶ 80 x 25	3" x 1"	02298412
▶ 80 x 32	3" x 1 1/4"	02298519
▶ 80 x 40	3" x 1 1/2"	03117107
▶ 80 x 50	3" x 2"	03117204
▶ 80 x 65	3" x 2 1/2"	03117301
▶ 100 x 50	4" x 2"	09905313
● 100 x 65	4" x 2 1/2"	09905012
● 100 x 80	4" x 3"	09904712

## RELATED PRODUCT

### Master Pipe Sealants

▶ Part Number 01314915



**LOCTITE**

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# PIPE FITTINGS – GALVANISED MALLEABLE & FLANGES

## Tee Equal



Size mm	Size in.	Part Number
6	1/8"	09238718
▶ 8	1/4"	03117505
▶ 10	3/8"	03117602
■ 15	1/2"	03117709
■ 20	3/4"	03117806
■ 25	1"	03117903
■ 32	1 1/4"	03118009
■ 40	1 1/2"	03118106
■ 50	2"	03118203
▶ 65	2 1/2"	03118407
▶ 80	3"	03118300
▶ 100	4"	03626300

## Tee Reducing



Size mm	Size in.	Part Number
● 15 x 8	1/2" x 1/4"	00002720
▶ 15 x 10	1/2" x 3/8"	03118805
▶ 20 x 10	3/4" x 3/8"	03119105
▶ 20 x 15	3/4" x 1/2"	03119202
▶ 25 x 15	1" x 1/2"	03119600
● 25 x 20	1" x 3/4"	03119707
● 32 x 15	1 1/4" x 1/2"	05430219
● 32 x 20	1 1/4" x 3/4"	03120107
▶ 32 x 25	1 1/4" x 1"	03120408
▶ 40 x 15	1 1/2" x 1/2"	03120602
▶ 40 x 20	1 1/2" x 3/4"	03120709
▶ 40 x 25	1 1/2" x 1"	03120806
▶ 40 x 32	1 1/2" x 1 1/4"	03120903
▶ 50 x 15	2" x 1/2"	03121106
▶ 50 x 20	2" x 3/4"	03121203
▶ 50 x 25	2" x 1"	03121300
▶ 50 x 32	2" x 1 1/4"	03121407
▶ 50 x 40	2" x 1 1/2"	03121504
▶ 65 x 50	2 1/2" x 2"	03664401
▶ 80 x 25	3" x 1"	03122105
▶ 80 x 40	3" x 1 1/2"	03122309
▶ 80 x 50	3" x 2"	03122406

## SYPHON PIPES

### Syphon Pipes – Pig Tail



Black Steel

BSP Thread Size		BlackSteel
mm	in.	
▶ 10	3/8	03582101

### Syphon Pipes – U Tail



Black Steel

BSP Thread Size		BlackSteel
mm	in.	
● 10	3/8	03581801

## Union 5 Degree Deflection



Size mm	Size in.	Part Number
■ 15	1/2"	03125500
■ 20	3/4"	03125607
■ 25	1"	05273679
■ 32	1 1/4"	03125801
■ 40	1 1/2"	03125908
■ 50	2"	03126004

## SPECIALIST HOSE MANUFACTURING AND SERVICING

NZ Safety Blackwoods' specialist hose and flow team have vast experience in specifying, assembling and servicing complex hose solutions to suit a broad range of industries.

With expert knowledge and extensive exposure to the infrastructure, food and beverage, rural and petrochemical environments, we design, assemble, install and service industry-leading hose and flow solutions for our customers throughout New Zealand.

Contact us on [hoseandflow@nzsafetyblackwoods.co.nz](mailto:hoseandflow@nzsafetyblackwoods.co.nz).

## FLANGES

### Slip-on Flanges



NB Size mm	NB Size inch	Carbon Steel			Stainless Steel		
		ANSI 150	TABLE D	TABLE E	ANSI 150	TABLE D	TABLE E
25	1	● 03609806	● 03181308	● 03181308	● 02953570	● 06600665	● 06600665
32	1 1/4	● 03609903	● 03181405	● 03181405	● 02520835	● 06600988	● 06600988
40	1 1/2	● 03610002	● 03181502	● 03181502	● 05576143	● 06600818	● 06600818
50	2	● 05583452	● 03182802	● 03182802	● 05633705	● 03181609	● 03181609
65	2 1/2	● 03610206	● 03181706	● 03181706	● 01224993	● 06600852	● 06600852
80	3	● 03610303	● 03181803	● 03181803	● 01225010	● 05557528	● 05557528
100	4	● 03610400	● 03233308	● 03233201	● 06601685		● 01300796
125	5	▶ 03912506					
150	6	▶ 03610604	▶ 03235102	▶ 03235102	▶ 06601702	▶ 02953519	▶ 02953519

KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## FITTINGS – PIPE – GALVANISED BARREL NIPPLES

### Fittings – Pipe – Galvanised Barrel Nipples and Pipe Pieces



Available in a wide variety of lengths to suit almost any application. The sizes shown here are the most commonly requested; for further details of other sizes and lengths please contact our local branch. BSPT Threads are to BS21.



#### Galvanised Barrel Nipples Std

Size mm	Size inch	Length mm	Mfr No.	Part Number
8	1/4	90	01G0850	03202708
8	1/4	80	01G0880	05551833
10	3/8	50	01G1050	03202805
10	3/8	80	01G1080	05551323
15	1/2	40	01G1540	05551374
15	1/2	50	01G1550	05551391
15	1/2	70	01G1570	05551408
15	1/2	80	01G1580	05551425
15	1/2	90	01G1590	05551442
20	3/4	40	01G2040	05551476
20	3/4	50	01G2050	05551493
20	3/4	60	01G2060	03203008
20	3/4	70	01G2070	05551510
20	3/4	80	01G2080	05551527
20	3/4	90	01G2090	05551544
25	1	50	01G2550	05551578
25	1	60	01G2560	03203105
25	1	80	01G2580	05551595
32	1 1/4	80	01G3280	03203202
40	1 1/2	60	01G4060	05551680
40	1 1/2	80	01G4080	03203309
40	1 1/2	90	01G4090	05551697
50	2	60	01G5060	05553091
50	2	80	01G5080	03203406
50	2	90	01G5090	05551748
65	2 1/2	80	01G6580	05551765
80	3	80	01G8080	03203600
100	4	80	01G10080	03644900

#### Galvanised Barrel Nipples C/Taper Type

Size mm	Size inch	Mfr No.	Part Number
8	1/4	01G08CT	05553142
10	3/8	01G10CT	05552870
15	1/2	01G15CT	05552887
20	3/4	01G20CT	05552921
25	1	01G25CT	05552955
32	1 1/4	01G32CT	05552989
8	1/4	01G08CT	05553142
10	3/8	01G10CT	05552870
15	1/2	01G15CT	05552887
20	3/4	01G20CT	05552921
25	1	01G25CT	05552955
32	1 1/4	01G32CT	05552989
40	1 1/2	01G40CT	05553023
50	2	01G50CT	05553057
80	3	01G80CT	05553108
100	4	01G100CT	05552836

## FITTINGS – PIPE – GALVANISED PIPE PIECES

Size mm	Size inch	Length mm	Mfr No.	Part Number
8	1/4	150	02G08150	00269484
10	3/8	100	02G10100	05551289
10	3/8	150	02G10150	00597193
15	1/2	100	02G15100	03218103
15	1/2	150	02G15150	03218200
15	1/2	200	02G15200	03218307
15	1/2	400	02G15400	09510216
15	1/2	600	02G15600	03219005
20	3/4	100	02G20100	03219102
20	3/4	200	02G20200	03219306
20	3/4	300	02G20300	03219500
20	3/4	600	02G20600	03220007
20	3/4	100	02G25100	03220104
25	1	150	02G25150	03220201
25	1	200	02G25200	03220308
25	1	500	02G25500	03220803
32	1 1/4	100	02G32100	03221103
32	1 1/4	150	02G32150	03221200
32	1 1/4	250	02G32250	03221404
32	1 1/4	300	02G32300	03221501
40	1 1/2	100	02G40100	03222102
40	1 1/2	150	02G40150	03222209
50	2	100	02G50100	03223101
50	2	200	02G50200	03223305
80	3	100	02G80100	05551782
150	6	150	02G150150	09933013

## RELATED PRODUCT

### Master Pipe Sealants

- Instant sealing grade containing PTFE
- Prevents thread galling, leakage & loosening due to vibration, shock & thermal cycling
- Medium strength thread locking with excellent chemical resistance
- Seals moderate pressures instantly
- Seals maximum pressures in 24 hours
- Use for metal fittings including stainless steel, brass, aluminium etc
- Temperature range: -55°C to +205°C
- AGA Approved No.3207 to 1,050kPa

LOCTITE



250ml

50ml

Mfr No.	Std Pack ml	Product Code
56747A	50ml	01314915
56741	250ml	01314818

# STAINLESS STEEL FITTINGS

## FITTINGS – SCREWED PIPE – STAINLESS STEEL 316

316 Stainless Steel 150lb screwed pipe fittings are ideal for the food, pharmaceutical, chemical industries.

### Bush Reducing BSP – SS316



Thread size inch	Part Number
▶ 3/8 x 1/8	02743815
■ 3/8 x 1/4	03255205
▶ 1/2 x 1/8	01230604
■ 1/2 x 1/4	03255302
■ 1/2 x 3/8	03255409
▶ 3/4 x 1/4	00895309
■ 3/4 x 1/2	03255700
▶ 1 x 1/2	03256000
■ 1 x 3/4	03256107
▶ 1 1/4 x 1	03256408
▶ 1 1/2 x 1	00755601
▶ 1 1/2 x 1 1/4	03256806
▶ 2 x 1 1/2	03257300

### Cap BSP – SS316



Thread size inch	Part Number
■ 1/4	00667052
■ 3/8	00666955
■ 1/2	01230507
■ 3/4	03264801
■ 1	03264908
▶ 1 1/4	03265004
▶ 1 1/2	03265101
▶ 2	00665355

### Elbow 90° Female x Female BSP – SS316



Thread size inch	Part Number
▶ 1/8	03265509
■ 1/4	03265606
■ 3/8	03265703
■ 1/2	03265800
■ 3/4	03265907
■ 1	03266003
▶ 1 1/4	03266100
▶ 1 1/2	03266207
▶ 2	03266304

### Elbow 90° Male x Female BSP – SS316



Thread size inch	Part Number
■ 1/4	02745114
■ 3/8	02745211
■ 1/2	02745318
■ 3/4	02745415
■ 1	05421710
▶ 1 1/4	05560588
▶ 1 1/2	05560605
▶ 2	05560622

### Nipple Hex Reducing BSP – SS316



Thread size inch	Part Number
■ 1/4 x 1/8	03269301
■ 3/8 x 1/4	03269505
■ 1/2 x 1/4	03269602
■ 1/2 x 3/8	03269709
▶ 3/4 x 3/8	02156101
■ 3/4 x 1/2	03269903
■ 1 x 1/2	03270002
■ 1 x 3/4	03270109

### Nipple Hex BSP – SS316



Thread size inch	Part Number
■ 1/8	03257407
■ 1/4	03257504
■ 3/8	03257601
■ 1/2	03257708
■ 3/4	03257805
■ 1	03257902
▶ 1 1/4	03258008
▶ 1 1/2	03258105
▶ 2	03258202

### Plug Hex BSP – SS316



Thread size inch	Part Number
■ 1/8	03268409
■ 1/4	03268506
■ 3/8	03268603
■ 1/2	03268700
■ 3/4	03268807
■ 1	03268904
▶ 1 1/4	03269000
▶ 1 1/2	03269107
▶ 2	03269204

### Socket Reducing BSP – SS316



Thread size inch	Part Number
▶ 3/8 x 1/4	02749615
▶ 1/2 x 3/8	02749819
▶ 3/4 x 1/2	02751519
▶ 1 x 1/2	05901418
▶ 1 x 3/4	05901719
▶ 1 1/4 x 1	05560639
● 1 1/2 x 1	05560656
▶ 1 1/2 x 1 1/4	05560673
▶ 2 x 1 1/2	05560690

### Socket BSP – SS316



Thread size inch	Part Number
■ 1/8	03678604
■ 1/4	03656008
■ 3/8	03656105
■ 1/2	03656202
■ 3/4	03656309
■ 1	03656406
▶ 1 1/4	03656503
▶ 1 1/2	03656600
▶ 2	03656707

### Tee Equal BSP – SS316



Thread size inch	Part Number
▶ 1/8	03266401
■ 1/4	03266508
■ 3/8	03266605
■ 1/2	03266702
■ 3/4	03266809
■ 1	03266906
● 1 1/4	03267002
▶ 1 1/2	03267109
▶ 2	03267206

### Union BSP – SS316



Thread size inch	Part Number
▶ 1/4	00895406
▶ 3/8	00895503
■ 1/2	00900906
■ 3/4	00897307
■ 1	00897200
▶ 1 1/4	00309893
▶ 1 1/2	02241210
▶ 2	02241317

KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## COUPLINGS – QUICK RELEASE – GENERAL PURPOSE – CAMLOCK

### Type A/NA1 – Male Adaptor x Female BSP



Size mm	General Purpose Alum.	Polyprop.	Stainless Steel	Instalock Petrol Grade Alum BSPT
13				▶ 00866957
20	■ 03675102	■ 02415129	■ 00057715	▶ 00866974
25	■ 03522103	■ 03678905	■ 00174896	▶ 00866991
32	■ 03522307	■ 00291992	▶ 00000731	▶ 00867008
38	■ 03522404	■ 03679001	■ 00014824	▶ 00867025
50	■ 03522501	■ 03679108	■ 04990760	▶ 00867042
63	■ 03522608	▶ 00008032	▶ 00057698	▶ 00867059
75	■ 03522705	▶ 00111464	▶ 00000714	▶ 00867076
100	■ 03522802	▶ 05248162	▶ 00110619	▶ 00867093
150				▶ 00867110

### Type B/NA3 – Female Coupler x Male BSP



Size mm	General Purpose Alum.	Polyprop.	Stainless Steel	Instalock Petrol Grade Alum BSPT	Instalock Stainless Steel BSPT	Instalock Petrol. Grade Alum NPT	Instalock Stainless Steel NPT
13				▶ 00867331	▶ 00867518		
20	■ 03525003	▶ 00389810	■ 05248213	▶ 00867348	▶ 00867535		
25	■ 03525100	■ 00000782	■ 00110449	▶ 00867365	▶ 00867552	▶ 07209673	▶ 07209792
32	■ 03525207	▶ 00292213	▶ 05248247	▶ 00867382	▶ 00867569	▶ 07209690	▶ 07209809
38	■ 03525304	■ 03679807	■ 00203405	▶ 00867399	▶ 00867586	▶ 07209707	▶ 07209826
50	■ 03525401	■ 03679904	■ 00057545	▶ 00867416	▶ 00867603	▶ 07209724	▶ 07209843
63	■ 03525508	▶ 00008049	▶ 00203558	▶ 00867433	▶ 00867620	▶ 07209741	▶ 07209860
75	■ 03525605	▶ 00057681	▶ 05091458	▶ 00867450	▶ 00867637	● 07209758	▶ 07209877
100	■ 03525702	▶ 05248281	● 00110636	▶ 00867467	▶ 00867654	● 07209775	▶ 07209894
125				▶ 00867484	▶ 00867671		

### Type C/NA9 – Female Coupler x Hose End



Size mm	General Purpose Alum.	Petrol. Grade Alum.	Polyprop.	Stainless Steel	Instalock Petrol. Grade Alum	Instalock Stainless Steel
15		05564379				
20	■ 03526400	▶ 00999097	■ 00632502	■ 05248349		
25	■ 03526507	● 00999114	■ 00111663	■ 04990665	▶ 06661695	▶ 06661882
32	■ 03526604	▶ 00999131	■ 00292298	▶ 00000748	▶ 07209911	▶ 07209945
38	■ 03526701	▶ 00999148	■ 03675500	■ 00014858	▶ 06661712	▶ 06661899
50	■ 03526808	● 00999165	■ 03675607	■ 00057596	▶ 06661746	▶ 06661916
63	■ 03526905	● 00999182	▶ 00008066	▶ 00203881	▶ 07209928	▶ 07209962
75	■ 03527001	▶ 00999199	▶ 00111963	▶ 00057562	▶ 06661780	▶ 06661933
100	■ 03527108	▶ 00999216	▶ 05248315	▶ 00300475	▶ 06661865	▶ 06661950
150	▶ 03527205	● 00999233				
200		● 05565807				

# CAMLOCK & INSTA-LOCK COUPLINGS

## Type D/NA 20 – Female Coupler x Female BSP



Size mm	General Purpose Aluminium	Polypropylene	Stainless Steel	Instalock Petrol Grade Alum BSPT	Instalock Stainless Steel BSPT	Instalock Petrol. Grade Alum NPT	Instalock Stainless Steel NPT
13		▶ 05248366		▶ 00868079	▶ 00868266		
20	■ 03527700	▶ 00057664	■ 00648567	▶ 00568096	▶ 00868283		
25	■ 03527807	■ 00112366	■ 00203796	▶ 00868113	▶ 00868300	▶ 06661967	▶ 06662069
32	■ 03527904	▶ 00292060	▶ 00216410	▶ 00868130	▶ 00868317	▶ 07209979	▶ 07210013
38	■ 03528000	■ 03680207	■ 00057613	▶ 00868147	▶ 00868334	▶ 06662001	▶ 06662086
50	■ 03528107	■ 03680100	■ 00291533	▶ 00868164	▶ 00868351	▶ 06662018	▶ 06662103
63	■ 03528204	▶ 05566827	▶ 00110670	▶ 00868181	▶ 00868368	▶ 07209996	▶ 07210030
75	■ 03528301	▶ 00112954	▶ 00110653	▶ 00868198	▶ 00868385	▶ 06662035	▶ 06662120
100	■ 03528408	▶ 05248383	▶ 00057647	▶ 00868215	▶ 00868402	▶ 06662052	▶ 06662137
125				▶ 00868232	▶ 00868419		
150				▶ 00868249	▶ 00868436		

## Type E/NA22 – Male Adaptor x Hose End



Size mm	General Purpose Aluminium	Petrol. Grade Aluminium	Polypropylene	Stainless Steel	Instalock Petrol. Grade Alum
13		● 05562067			
20	▶ 03529504	● 01000151	■ 00389827	■ 02991565	
25	■ 03529601	● 01000168	■ 00014909	■ 00080563	▶ 07210047
32	■ 03529708	● 01000185	■ 00292111	▶ 00808316	▶ 07210064
38	■ 03529805	● 01000202	■ 03679302	■ 00014841	▶ 07210081
50	■ 03640603	▶ 01000219	■ 03725803	■ 00057579	▶ 07210098
63	■ 03530001	▶ 01000236	▶ 05564090	■ 01183054	▶ 07210115
75	■ 03530108	▶ 01000253	▶ 03679409	▶ 00203932	▶ 07210132
100	■ 03530205	▶ 01000270	▶ 05248468	▶ 00061013	▶ 07210149
150	▶ 03530409	● 01000287			
200		▶ 05563767			

## Type F/NA10 – Male Adaptor x Male BSP



Size mm	General Purpose Alum.	Polyprop.	Stainless Steel	Instalock Petrol Grade Alum BSPT
13		■ 05248485		▶ 00868827
20	■ 03530603	■ 00203490	■ 05248536	▶ 00868844
25	■ 03530700	■ 00105166	■ 00057732	▶ 00868861
32	■ 03530807	■ 00291941	▶ 00216427	▶ 00868878
38	■ 03620500	■ 03679506	■ 00014875	▶ 00868895
50	■ 03620607	■ 03679603	■ 00000697	▶ 00868912
63	■ 03530904	▶ 05564073	▶ 00232186	▶ 00868929
75	■ 03531000	▶ 03725900	▶ 00057630	▶ 00868946
100	▶ 03531107	▶ 05248502	▶ 00203609	▶ 00868963
125				▶ 00868980
150				▶ 00868997

KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## Type DC/NA2 – Female Dust Cap



Size mm	General Purpose Alum.	Petrol. Grade Alum.	Polyprop.	Stainless Steel	Instalock Petrol. Grade Alum	Instalock Stainless Steel
20	03726705	01001647	00604299	05248740		
25	03619605	01001664	00107162	00203660	07210761	07210880
32	03619702	01001681	00292162	05248757	07210778	07210897
38	03619809	01001698	03680906	00110687	07210795	07210914
50	03619906	01001715	03681002	00203711	07210812	07210931
63	03620005	01001732		01435708	07210829	07210948
75	03620102	01001749	00107355	00000765	07210846	07210965
100	03620209	01001766	05248723	03263191	07210863	07210982
150		01001783				
200		05561778				

## Type DP/NA8 – Male Dust Plug



Size mm	General Purpose Alum.	Petrol. Grade Alum.	Polyprop.	Stainless Steel	Instalock Petrol. Grade Alum	Instalock Stainless Steel
20	03680401	01001188	05248655	05248672		
25	03532203	01001205	00105564	00203303	07210523	07210642
32	03532300	01001222	00292264	03263072	07210540	07210659
38	03532407	01001239	03680702	03263089	07210557	07210676
50	03532504	01001273	03680809	03263123	07210574	07210693
63	03675801	01001290		03263140	07210591	07210710
75	03532708	01001307	00107054	03263157	07210608	07210727
100	03532805	01001324	05248689	03263174	07210625	07210744
150		05330680				
200		05561795				

## Other Petroleum Grade Camlock Styles and Spare Gaskets



Size mm	Type AA/NA4 Male Adaptor x Male Adaptor	Type C68/NA13 emale Coupler x 68° Hose Tail	Type C90/NA34 Female Coupler x 90° Hose Tail
25	05562288		
32	05562441		
38	05562594	05564872	
50	05562747	05565008	05565059
63	05562985	05565161	05565212
75	05563189	05565399	05565450
100	05563478	05565620	05565688

## MAXIMUM PRESSURE RATINGS – CAM AND GROOVE COUPLINGS

The following Camlock pressure ratings are based upon liquid media at a temperature of 21°C with a standard Buna-N seal installed:

FOR ALUMINIUM, BRASS, BRONZE & STAINLESS STEEL CAMLOCKS						
SIZE MM	15	20-50	65	75	100	125-150
PRESSURE KPA	1035	1725	1035	865	690	520
PRESSURE PSI	150	250	150	125	100	75

FOR POLYPROPYLENE & NYGLASS CAMLOCKS				
SIZE MM	15	32-20	75	100
PRESSURE KPA	865	690	520	345
PRESSURE PSI	125	100	75	50

For use at elevated or other unusual operating conditions, please contact your nearest Technical Representative at [hoseandflow@nzsaftyblackwoods.co.nz](mailto:hoseandflow@nzsaftyblackwoods.co.nz).

# CAMLOCK & INSTA – LOCK COUPLINGS

## Camlock Ferrules – Insta-Lock



- Integral fitting system when used with compatible Continental Conti-Tech Insta-Lock™ camlocks for additional safety and retention
- Smooth finish lowers occupational health and safety risks associated with clamped or bandit style fitted assemblies for catch, cuts and abrasions
- Stainless steel grade 304
- Suitable for any application that requires a high grade coupling system with safety being the priority
- Ideal for agricultural, mining, petroleum and manufacturing industries



Hose Size (ID) mm	Ferrule ID mm	Ferrule ID mm	Conti-Tech Description	Conti-Tech Code	Part Number
● 25	34.92	1.3750	FRSS100124	20149821	00870068*
▶ 25	36.51	1.4375	FRSS100128	20149822	05639094
▶ 25	38.10	1.5000	FRSS100132	20149823	00870102*
▶ 25	39.68	1.5625	FRSS100136	20147814	05638788
▶ 25	41.27	1.6250	FRSS100140	20147815	05637105
● 25	42.86	1.6875	FRSS100144	20309640	05636782
● 32	42.86	1.6875	FRSS125144	20149824	05637207
● 32	44.45	1.7500	FRSS125148	20149825	00870170*
▶ 32	46.03	1.8125	FRSS125152	20147816	05637224
▶ 32	47.62	1.8750	FRSS125156	20147817	05637258
● 38	47.62	1.8750	FRSS150156	20148420	00870204*
▶ 38	49.21	1.9375	FRSS150160	20148421	05637292
● 38	50.80	2.0000	FRSS150200	20148423	00870255*
▶ 38	52.38	2.0625	FRSS150204	20147837	05785821
▶ 38	53.97	2.1250	FRSS150208	20145612	05634147
▶ 38	55.56	2.1875	FRSS150212	20147838	05634164
● 38	57.15	2.2500	FRSS150216	20145613	00870323*
● 38	58.73	2.3125	FRSS150220	20148424	00870340*
▶ 50	63.50	2.5000	FRSS200232	20147818	05646115
● 50	65.08	2.5625	FRSS200236	20147836	00870374*
▶ 50	66.67	2.6250	FRSS200240	20148425	05646132
▶ 50	68.26	2.6875	FRSS200244	20148422	05639791
● 50	69.85	2.7500	FRSS200248	20147839	00870442*
● 50	71.43	2.8125	FRSS200252	20148426	05639808
● 50	73.02	2.8750	FRSS200256	20148427	00870459*
● 50	74.61	2.9375	FRSS200260	20148428	00870476*
● 50	76.20	3.0000	FRSS200300	20148429	00870493*
● 63	73.02	2.8750	FRSS250256	20149826	00870510*
● 63	74.61	2.9375	FRSS250260	20149827	00870527*
● 63	76.20	3.0000	FRSS250300	20149828	00870544*
● 63	77.78	3.0625	FRSS250304	20149829	00870561*
● 63	79.37	3.1250	FRSS250308	20149840	00870578*
● 63	80.96	3.1875	FRSS250312	20147819	00870595*
● 63	82.55	3.2500	FRSS250316	20147830	00870612*
▶ 63	84.13	3.3125	FRSS250320	20149841	05638448
▶ 63	85.72	3.3750	FRSS250324	20149842	08294613
● 76	88.90	3.5000	FRSS300332	20149843	00870663*
● 76	90.48	3.5625	FRSS300336	20147831	00870680*
▶ 76	92.07	3.6250	FRSS300340	20148440	05638465
▶ 76	93.66	3.6875	FRSS300344	20145617	05639281
● 76	95.25	3.7500	FRSS300348	20147870	00870731*
● 76	96.83	3.8125	FRSS300352	20145618	00870748*
● 76	98.42	3.8750	FRSS300356	20147832	00870765*
▶ 76	100.01	3.9375	FRSS300360	20145619	05641661
● 76	101.20	4.0000	FRSS300400	20148441	00870799*
● 76	102.78	4.0625	FRSS300404	20148442	00870816*
● 102	115.88	4.5625	FRSS400436	20149844	00870833*
▶ 102	117.47	4.6250	FRSS400440	20149845	05642426
● 102	119.06	4.6875	FRSS400444	20148443	00870867*
▶ 102	120.65	4.7500	FRSS400448	20145630	05642460
● 102	122.23	4.8125	FRSS400452	20147871	00870901*
● 102	123.42	4.8750	FRSS400456	20148444	00870918*
● 102	125.41	4.9375	FRSS400460	20148445	00870935*
● 102	127.00	5.0000	FRSS400500	20148446	00870952*
● 102	128.58	5.0625	FRSS400504	20148447	00870969*

Note: \*These items are not held in stock

## Camlock Adaptor Seals



Size mm	Type FA18/NA18 Adaptor x Flanged	Male Buna-N Nitrile Rubber Camlock Gasket (Black)	Viton Rubber Camlock Gasket (Red)	Teflon Encapsulated Gasket
15-20		▶ 03544000	▶ 00102657	
25		▶ 03544107	▶ 07211118	▶ 07211237
32		▶ 03544204	▶ 07211135	▶ 07211254
38		▶ 03544301	▶ 07211152	▶ 07211271
50	▶ 05562798	▶ 03544408	▶ 07211169	▶ 07211288
63	▶ 05563036	▶ 03544505	▶ 07211186	▶ 07211305
75	▶ 05563274	▶ 03544602	▶ 07211203	▶ 07211322
100	▶ 05563546	▶ 03544709	▶ 07211220	▶ 07211339
150	▶ 05563699	▶ 03544806	▶ 05270517	

## CUSTOM HOSE ASSEMBLY

### NZ Safety Blackwoods

#### Custom hose assembly to suit your requirements

We stock and custom build a comprehensive range of hoses assemblies tailored to suit a diverse range of industries. Our assembly capacity includes crimping, wire whipping, fitting to a band, and welding a vast selection of fittings, including camlocks, hosetails, flanges and sanitary fittings.

#### Rubber

Used for applications such as product transfer ween tanks, vessels and trucks, as well as chemical and washdown processes.



#### PVC

Used for product transfer, especially applications that require visibility of product through the hose.



#### Composite

Used to transfer caustic and acidic chemicals, and for tallow, fat and oil products.



#### Braided stainless

Used for high temperature applications such as steam operations.



KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## HOSE COUPLINGS – THREADED

### Hose Couplings – Steam

**LUDECKE**

Ends: Screwed BSP.

Heavy duty robust zinc plated steel complete with forged brass safety clamps. Suitable for 25mm Steam Hose with a 7.5mm wall thickness they can be safely used to a maximum saturated steam temperature of 210°C and up to 18 bar working pressure. Designed and manufactured in Germany to meet the requirements of DIN EN 14 423.



Description	Mfr No.	Part Number
▶ Male Thread c/w safety clamp 25 x 7.5	DAK 10-25 ST	<b>05973603</b>
▶ Female Thread c/w safety clamp 25 x 7.5	DIK 10-25 ST	<b>05973569</b>

### Round Hole Strainer

Zinc plated strainer for the end of water suction hoses. Standard with female BSP thread.



Size mm	Part Number
▶ 38	<b>05597665</b>
■ 50	<b>05597682</b>
■ 76	<b>05597699</b>
▶ 102	<b>05597716</b>
▶ 150	<b>05597733</b>

### Steel Hose Tails & Joiners

Zinc Plated Mild Steel Hose Fittings which are available in threaded Male BSP and also in a hose joiner/mender option.



MBSP Threaded Hose Tail			Hose Joiner	
Size mm	Mfr No.	Part Number	Mfr No.	Part Number
13	WST013	■ <b>05623845</b>		
19	WST019	■ <b>05623862</b>	WSJ019	■ <b>05571230</b>
25	WST025	■ <b>05623879</b>	WSJ025	■ <b>05571247</b>
32	WST032	■ <b>05623896</b>	WSJ032	■ <b>05571264</b>
38	WST038	■ <b>05623913</b>	WSJ038	■ <b>05571281</b>
51	WST051	■ <b>05623930</b>	WSJ051	■ <b>05571298</b>
64	WST064	■ <b>05623947</b>	WSJ064	■ <b>05571315</b>
76	WST076	■ <b>05623964</b>	WSJ076	■ <b>05571332</b>
102	WST102	■ <b>05623981</b>	WSJ102	■ <b>05571349</b>
152	WST152	■ <b>05623998</b>		
203	WST203	■ <b>05624015</b>		

### Threaded Hose Couplings with Safety Clamps – Roman Seliger

Male Hose Couplings with Safety Clamps according to DIN 2817 suitable for 25 bar working pressure. Hose coupling made from Steel with BSPT Male thread and clamps are made from drop forged aluminium. Made in Germany these couplings are used mainly in the petroleum industry.



Size DN mm	Mfr No.	Part Number
▶ 25 x 6	320.256100.210	<b>05621346</b>
▶ 32 x 6	320.326125.110	<b>05621363</b>
▶ 38 x 6.5	320.387150.110	<b>05621380</b>
▶ 50 x 8	320.508200.110	<b>05621397</b>

### Hose Fittings – Threaded MBSP

Threaded Male BSP Hose Tails are available in aluminium



Size DN mm	Mfr No.	Part Number
▶ 19	ALTTS019	<b>05566011</b>
▶ 25	ALTTS025	<b>05566045</b>
● 32	ALTTS032	<b>05566079</b>
● 38	ALTTS038	<b>05566096</b>
▶ 51	ALTTS051	<b>05566147</b>
● 64	ALTTS064	<b>05566232</b>
▶ 76	ALTTS076	<b>05566283</b>
● 102	ALTTS102	<b>05566351</b>

### Hose Couplings Threaded – Male BSP x Hose Tail – Stainless Steel

Male BSP Threaded Hose Tails made from 316 grade stainless steel.



Size inch	Size mm	Mfr No.	Part Number
■ 1/4	8	TSMHT008	<b>03720701</b>
■ 3/8	10	TSMHT010	<b>03720905</b>
■ 1/2	15	TSMHT015	<b>03721001</b>
■ 3/4	20	TSMHT020	<b>03721108</b>
■ 1	25	TSMHT025	<b>03721205</b>
▶ 1 1/4	32	TSMHT032	<b>05633603</b>
▶ 1 1/2	40	TSMHT040	<b>05633620</b>
▶ 2	50	TSMHT050	<b>05633637</b>
▶ 2 1/2	65	TSMHT065	<b>05566249</b>
▶ 3	80	TSMHT080	<b>05566317</b>
▶ 4	100	TSMHT100	<b>05566368</b>

# RJT & TRI CLOVER FITTINGS – BREAKAWAY COUPLINGS

## RJT Slot Nut/RJT Hex Nut

Stainless steel 316 grade.



Size inch	RJT Slot Nut	RJT Hex Nut
1		● 02097689
1-1/2		● 02097706
2	● 05554961	▶ 02097723
2-1/2		● 02097740
3	● 05554995	▶ 02097757
4	● 05555102	▶ 02097774

## NZ RJT Crimp Stem

Stainless steel 316 grade.  
Recommended for food, dairy and pharmaceutical applications where increased flow capacity is important.



Mfr No.	Size inch	Part Number
● HA0225-NZ	1 ½	00871003
▶ HA0226-NZ	2	00871020
▶ HA0227-NZ	2 ½	00871037
▶ HA0228-NZ	3	00871054
▶ HA0294-NZ	4	00871071

## Holedall Clamp Type/Tri-Clover External Crimp Stem

Stainless steel 316 grade.  
Recommended for food, dairy and pharmaceutical applications where increased flow capacity is important.



Mfr No.	Size inch	Part Number
▶ HA0640	1	02100256
▶ HA0641	1 ½	02100273
▶ HA0642	2	02100290
▶ HA0643	2 ½	02100307
▶ HA0644	3	02100324
▶ HA0645	4	02100341

\*Note: All Stems are manufactured to suit inch bore hoses (not metric bore hoses)

## Holedall External Crimp Ferrules



Mfr No.	Size inch	Hose OD Range mm from	Hose OD Range mm to	Part Number
▶ HA0249-41-3	1	33.0	35.0	04815363
▶ HA0249-45-3	1	36.9	37.7	04811367
▶ HA0249-46-3	1	38.1	38.9	04811464
▶ HA0249-47-3	1	39.3	40.1	05558242
● HA0249-48-3	1	40.5	41.3	00998094
▶ HA0250-56-3	1 ½	48.4	49.6	00998706
● HA0250-58-3	1 ½	50.0	51.2	00999318
● HA0250-59-3	1 ½	51.6	52.8	05563954
▶ HA0250-61-3	1 ½	53.2	54.4	05562084
▶ HA0251-70-3	2	62.7	63.9	05779174
● HA0251-72-3	2	64.3	65.5	05563376
● HA0251-74-3	2	65.9	67.1	07206732
● HA0251-75-3	2	67.4	68.7	06229096
● HA0251-76-3	2	71.44	73.63	06229113
● HA0252-84-3	2 ½	76.1	78.1	06229130
▶ HA0252-86-3	2 ½	78.1	80.1	01002021
▶ HA0252-89-3	2 ½	81.1	83.1	01002038
▶ HA0253-96-3	3	88.0	91.0	06229232
▶ HA0253-98-3	3	91.7	92.9	05779191
▶ HA0253-100-3	3	92.1	93.3	05779208
● HA0253-101-3	3	93.6	94.9	05565297
● HA0253-103-3	3	95.2	96.5	01347478
● HA0253-105-3	3	96.8	98.0	05569819
▶ HA0301-129-5	4	117.5	118.7	05570091
▶ HA0301-130-5	4	119.0	120.3	05570210
▶ HA0301-132-5	4	120.6	121.9	05569938

## Sanitary Breakaway Coupling

### Applications:

- Minimises spillage and damage associated with pull away and drive away incidents

### Features:

- Designed to be installed between a fixed point and a hose
- Coupling breaks away with an excessive load
- Bevel seat connection standard, optional sanitary ends available
- EPDM standard clamp gasket, optional material available
- Working pressure: 350 PSI @ 70°F
- 13kN break load bolts standard, other break loads available
- 316 stainless steel polished to standard <32R, 3A finish
- EPDM standard clamp gasket



Description	KN	Part Number
● 64mm Sanitary breakaway coupling u/v	13	05645877
● 76mm Sanitary breakaway coupling u/v	13	05645945
● 102mm Sanitary breakaway coupling u/v	13	05645996
▶ Breakaway bolts/seal kit	13	03049451
▶ Breakaway bolts/seal kit	9	03049468

\*Note: Couplings shown are complete with fittings

KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## SELECTING A HOSE REEL

### The use of hose reels can:

- Organise cluttered work areas
- Increase worker safety by keeping hoses off the floor
- Prevent hoses from tangling and continually rubbing on itself
- Properly store hoses to increase their usable life and reduce the likelihood of hoses kinking or cracking which can create leaks and a loss in pressure

### Selecting a hose reel

#### 1. What is the application's pressure requirements and what media is being transported?

- Some adaptable reels can handle a variety of media (air, water, fuel) with working pressures up to 4150kPa (600psi)
- Simple water applications may require lower pressures of only up to 2075kPa (300psi)
- Hydraulic and oil specific reels handle pressures of 21,000kPa (3000psi)
- Grease and lubrication applications would require up to 35,000kPa (5000psi)

#### 2. Size the reel according to the inside diameter (ID) of the hose to be used.

- Applications where more torque is needed (e.g. for larger pneumatic tools or heavy repairs) may require use of larger ID hoses

#### 3. Length of Hose.

- Consider the length of hose that will be needed, based upon placement of hose in the work area. The longer the hose, the greater the possibility of pressure loss

#### 4. Consider the construction material of the reel and its mounting.

- Will the reel need to be metal or composite/plastic based?
- Will the reel need hand-cranking to retrieve the hose or is a motor drive required?
- Will the reel need to be solid or swivel-mounted?

### Dry Disconnect Coupling

- Designed for quick and spill free connection and disconnection of hoses and pipelines.
- They are used by producers of ink, adhesives, fatty acids, pharmaceuticals, liquid soaps, petroleum, chemicals, agricultural and a wide variety of common caustic and specialty acids

Available on request – contact our specialist team at [hoseandflow@nz safetyblackwoods.co.nz](mailto:hoseandflow@nz safetyblackwoods.co.nz)



## Industrial Hose Reels



### Available models:

Mini and Maxi – for 3/8" and 1/2" hoses – suitable for up to 4,000psi  
 Mega and Mini-Mega – for 3/4" and 1" hoses – suitable for up to 750psi  
 Mega 1/2" – for longer lengths of 1/2" hose – suitable for up to 4,000psi

### GECO Hose Reels are:

- Manufactured in New Zealand
- All steel welded construction
- Zinc plated and powder coated
- Fittings are BSP male tapered thread for connection of swivel (outside) and hose (inside)
- All reels available without swivel
- Capacity is a function of hose O.D.

### Brass (Low Pressure) Swivels

- 90 degree elbow
- Nitrile seals as standard, other seals on request
- Suitable for up to 750psi working pressure
- BSP female tapered thread for connection to reel
- Supplied with hose tail

### Stainless Steel (High Pressure) Swivels

- 90 degree elbow
- Nitrile seals as standard, other seals on request
- Suitable for up to 4000psi working pressure
- BSP female tapered thread for connection to reel
- BSP male tapered thread for hose connection



Hose OD mm	Hose Length m			
	Mini	Maxi	Mega	Mini Mega
13	134	201		
14	130	191		
15	107	160		
16	102	149	236	
17	81	122	196	
18	76	118	160	
19	64	93	153	
20	59	89	147	
21	48	72	124	
22	44	69	117	
23			110	36
24			90	32
25			85	32
26			85	32
27			62	29
28			62	29
29			57	20
30			58	20
31			58	18
32			39	18
33			37	18
34			37	18
35			37	18
36			36	15
37			36	15

\*Capacity of GECO Hose Reels in Metres

\*Table assumes hose in neatly coiled and not randomly wound

\*In practise use 80% of these figures

# HOSE REELS

## Retractable Heavy Duty Hose Reels

- Heavy duty, weather resistant UV stabilised polypropylene casing, indoor or outdoor use
- Reel spring can easily be re-tensioned without being dismantled for long service life
- Positive latching mechanism allows reel to be mounted in any position without modification
- Stainless steel mouth for improved protection of hose during extension and retraction
- Optional bench/floor bracket available (BB100)
- Reel supplied standard with metal wall bracket, steel pivot pin, carry handle
- Fully repairable with spare parts availability
- 10 Year warranty



Mfr No.	Hose ID mm	Hose ID in.	Length m	Description	Part Number
AR2101	10	3/8	20	Air – 250psi	01166190
AR2121	12.5	1/2	15	Air – 250psi	01166207
AW2101	10	3/8	20	Air/water – 250psi	02157342
AW2150	10	3/8	15	Air/water – 250psi	05458928
AW2121	12.5	1/2	15	Air/water – 250psi	03224415
CW2121	12.5	1/2	15	Cold wash reel – 150psi	01166224
DR2121	12.5	1/2	18	Domestic garden – 125psi	05634640
GR2061	6	1/4	10	High pressure grease – 5000psi	03493155
HW2121	12.5	1/2	12	Hot water – 200psi/90°C	01093052
HWP2101	10	3/8	12	High pressure hot water – 3000psi/95°C	03638721
OA2551	5	1/4	15	Oxy/acetylene twin gas	05635252
OLPG2551	5 twin	1/4	15	Oxy/LPG gases – 200psi	03638653
OMP2121	12.5	1/2	10	Oil medium pressure – 1000psi	04039514
WP2101	10	3/8	16	Weedicide/pesticide – 250psi	00084898
CR2121	12.5	1/2	10	Coolant reel C/W gun	419353
WR2121	12.5	1/2	15	Air/water – 250psi	419354



Mfr No.	Description	Part Number
BB100	Bench Bracket for floor or bench mount	03223191
BU100	Wall Mounting Bracket	03968504

## Coolant and Fluid Delivery Nozzle

- Good multi-purpose delivery nozzle to suit a wide range of applications
- Wetted materials – polypropylene, brass, zinc plated mild steel, Nitrile
- Easy action trigger to control flow with locking function for extended use
- Can handle fluid temperatures up to 50°C with little heat transfer to operators
- Suitable for all types of mineral oils, engine coolants, water based materials and some chemicals
- Higher pressure and higher flow rates than many other types of hose nozzles available
- 5 Year warranty



Mfr No.	Litres p/m	Max. WP psi	Description	Part Number
CCG-01	Up to 30Lp/m	365	3/8" BSP(F) fluid inlet swivel	04900478

KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

## Retractable Metal Single Pedestal Hose Reels

- Single pedestal metal reels with double supported steel drum shaft
- Designed for use in all types of workshops or factories, wall/floor mounting bracket integral to the reel design
- Spring rewind with lubricated, encapsulated spring cassette
- Positive latching ratchet
- Multi-directional nylon roller guides reduce drag and wear, re-positional arm for different mounting positions
- Fully serviceable with spare parts available
- 5 Year warranty



Mfr No.	Hose ID mm	Hose ID in.	Length m	Description	Part Number
MAS1220-01	12.5	1/2	20	Air/water – 300psi	03720083
MGS0615-01	6	1/4	15	High pressure grease – 5000psi	03720117
MOS1220-01	12.5	1/2	20	Oils – 1000psi	04088048
MRS1320N-01	12.5	1/2	20	Bare reel (no hose fitted) – 1000psi	03223225
MAS1020-01	9	3/8	20	Air/water – 300psi	419356

## Retractable Metal Double Pedestal Hose Reels

- Double pedestal metal reels with double supported steel drum shaft
- Designed for use in all types of workshops or factories, wall/floor mounting bracket integral to the reel design
- Suitable to be fitted to mobile applications like service trucks because of double frame support
- Spring rewind with lubricated, encapsulated spring cassette
- Positive latching ratchet
- Multi-directional nylon roller guides reduce drag and wear, re-positional arm for different mounting positions
- Fully serviceable with spare parts available
- 5 Year warranty



Mfr No.	Hose ID mm	Hose ID in.	Length m	Description	Part Number
MATP1220-01	12	1/2	20	Air/Water – 300psi	00972000
MATP1920-01	19	3/4	20	Air/Water – 300psi	00972107
MOTP2510-01	25	1	10	Diesel, Air/Water – 500psi	03223242
MDTP2520-01	25	1	20	Diesel, Air/Water – 500psi	00972034
MGTP0615-01	6	1/4	15	High Pressure Grease – 5000psi	00972051
MGTP0915-01	9	3/8	15	High Pressure Grease – 5000psi	00972068
MOTP1220-01	12	1/2	20	Oils & Service Fluids – 1000psi	00972085
MOTP1920-01	19	1/4	20	Oils & Service Fluids – 1000psi	00972102
M RTP1320N-01	13	1/2	20	Bare Reel (no hose fitted) – 1000psi	03223259
M RTP2520N-01	25	1	20	Bare Reel (no hose fitted) – 1000psi	03223276
HAB1908-01	19	3/4	8	Def/Urea	419355

## Heavy Duty Hose Reels – S Series

- Impact resistant UV stabilised covers for maximum durability
- Adjustable spring tension & high flow swivel and fluid path
- Detachable steel mounting bracket enables 180° hose reel rotation
- Automatic and positive latching mechanism
- Can be mounted on the wall or ceiling
- Ideal for back of UTE or mobile use
- All models include additional 0.9M lead in hose



Mfr No.	Description	Application	c/w Hose	Hose ID (mm)	Hose Length (m)	Max. Working Pressure (PSI)	Part Number
▶ SA300N	Spring rewind reel & hose	Air	•	10	18	300	03046663
▶ SA400N	Spring rewind reel & hose	Air	•	12	15	300	04889156
▶ SW500N	Spring rewind reel & hose	Water	•	12	29	180	05621312
● SO600	Spring rewind reel & hose	Oxy/Acetyl	••	15	15	300	03046680
● SOI700	Spring rewind reel & hose	Oil Fuel	•	12	10	2000	03168910
● SG800	Spring rewind reel & hose	Grease	•	8	10	5000	03168927
● SA630	Spring rewind reel & hose	Argon	•	6	20	300	03622827
● SO640	Spring rewind reel & hose	Oxy/Acetyl	••	6	8	300	03622844
● SOP620	Spring rewind reel & hose	Oxy/Propn	••	6	15	300	419369
● SP610	Spring rewind reel & hose	Propane	•	6	20	300	03622878
● WP1290	Spring rewind reel & hose	Water	•	12	30	300	07190106

## Standard Hose Reels – HR30000/HR40000 EL Series

- High quality, impact resistant, UV stabilised polypropylene covers
- Convenient carry handle assists during reel mounting and storage
- Lightweight, compact and durable construction
- Supplied standard with a 0.9m long lead in hose



### HR30000 Series

Mfr No.	Description	Application	c/w Hose	c/w Gun	Hose ID mm	Hose Length mm	Working Pressure PSI	Part Number
● HR30070	El series hose & reel	Hot wash	•		10	20	300	03622776
● HR30070C	El series hose & reel & gun	Hot wash	•	•	10	20	300	03622759
● HR30080	El series hose & reel	Hot wash	•		12	15	300	03622708
● HR30080C	El series hose & reel & gun	Hot wash	•	•	12	15	300	03622793

### HR40000 Series

Mfr No.	Description	Application	c/w Hose	c/w Gun	Hose ID mm	Hose Length mm	Working Pressure PSI	Part Number
● HR40010	El series hose & reel	Air	•		10	15	300	05642494
● HR40020	El series hose & reel	Air/water	•		12	15	300	06517610
● HR40030	El series hose & reel	Air/water	•		10	20	300	417514
● HR40040	El series hose & reel	Air/water	•		12	15	300	417515
● HR40050	El series hose & reel	Water	•		12	18/	300	417516

## Standard Duty Spring Rewind Hose Reels – HR90000 EL Series

- Reinforced steel frame provides maximum strength & stability
- 1.5mm thick robust drum assembly with stiffening ribs & flange edges
- Improves operator safety, and workshop productivity
- Can be mounted on the floor, wall or ceiling



Mfr No.	Description	Application	c/w Hose	c/w Gun	Hose ID mm	Hose Length mm	Working Pressure PSI	Part Number
● HR90005	EL series spring rewind	Air/water	•		25	30	300	03191401
● HR90010	EL series spring rewind	Air/water	•		25	15	300	03191418
● HR90015	EL series spring rewind	Air/water	•		25	8	300	03191435
● HR90020	EL series spring rewind	Air/water	•		19	40	300	03191452
● HR90025	EL series spring rewind	Air/water	•		19	20	300	03191469
● HR90040	EL series spring rewind	Air/water	•		12	30	300	03191520
● HR90045	EL series spring rewind	Air/water	•		12	25	300	03191537
● HR90050	EL series spring rewind	Fuel/oil	•		25	15	1000	03191554
● HR90055	EL series spring rewind	Fuel/oil	•		19	20	1250	03191571
● HR90060	EL series spring rewind	Fuel/oil	•		12	30	2000	03191571
● * HR90005BSS	* S/steel hose reel (bare)	* Air/water			* 25	* 30	* 300	* 03616435
● * HR90045BSS	* S/steel hose reel (bare)	* Air/water			* 12	* 25	* 300	* 03616469

## BASIC HOSE CONSTRUCTION



### Cover

The cover is the outermost or visible area of the hose. It is designed to be a protective covering against wear, abrasion, cuts, weather and the general destructive action encountered in normal service.

### Tube or Lining

The tube is the inner-most element of a hose and is compounded to provide resistance to the material being carried. With the wide range of rubber compounds available, a hose can be built to withstand abrasive materials, chemicals, oil and a wide variety of other materials.

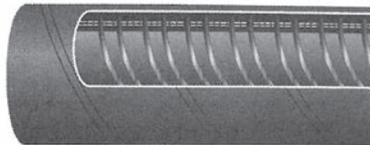
### Body or Carcass

The body reinforcement is the supporting structure of the hose. It can range from simple to complex combinations and consists of cord, yarn, fabric, wire or any combination of these.

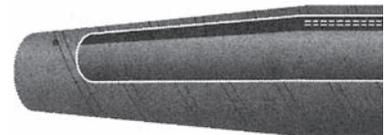
## DEFINITIONS OF HOSE ENDS



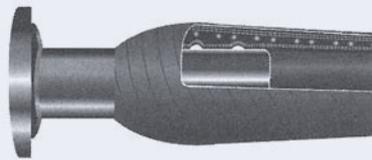
### Plain End



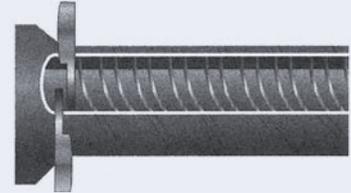
### Integral Rubber Tapered Nozzle End



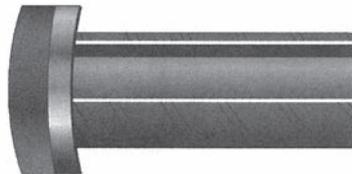
### Built-In Nipple End



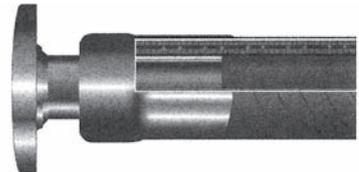
### Rubber Beaded End



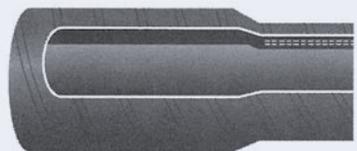
### Capped End



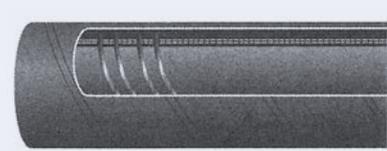
### Integrated Rubber Flanged End



### Enlarged End



### Soft End



## CUSTOM BUILT RUBBER HOSES

Typically required hoses include:

- Dock hoses and bunkering hoses for the petro-chemical industry
- Slurry hoses, super abrasion resistant hoses, cement hoses
- Acid & chemical transfer hoses
- Milk tanker hoses, milk reception hoses, butter hoses, food & beverage hoses, wine hoses
- Hot and cold water suction & discharge hoses

### NZ Safety Blackwoods

- Marine wet exhaust hoses and sleeves
- Flexible hot water radiator hoses
- Large bore pump suction hoses
- Air bladder tubes for industry
- Road sweeper hoses

All hoses can be hand built to customer specification, fully tested and certified before despatch. Special branding and identification requirements can also be met. For further details contact our specialists at [hoseandflow@nzsafetyblackwoods.co.nz](mailto:hoseandflow@nzsafetyblackwoods.co.nz).

KEY: ■ Available in-store ▶ Available in stock (ex DC) ● Available on order

# Hose Assembly Request Form

Customer: \_\_\_\_\_

Customer name: \_\_\_\_\_

Contact number: \_\_\_\_\_ Contact fax: \_\_\_\_\_

Email: \_\_\_\_\_

Account number: \_\_\_\_\_ Purchase order: \_\_\_\_\_

Internal reference: \_\_\_\_\_

Delivery address: \_\_\_\_\_

Special instructions: \_\_\_\_\_

Ship via: \_\_\_\_\_

## Size

ID \_\_\_\_\_ mm      LENGTH \_\_\_\_\_ M      Rubber       PVC       Layflat

Composite       Metal

Description: \_\_\_\_\_

## Temperature of media and environment

20°C     40°C     60°C     100°C     Steam     Specify: \_\_\_\_\_

## Application

Pressure       Suction       Vacuum

External Environment: Chemical       Harsh       Clean

## Media

Water     Air     Steam     Petroleum     Chemical     Specify: \_\_\_\_\_

## Pressure

Specify: \_\_\_\_\_ Kpa      \_\_\_\_\_ Bar      \_\_\_\_\_ Psi

## End clamping & fitting methods

End fittings: End 1 Specify: \_\_\_\_\_      End 2 Specify: \_\_\_\_\_

## Delivery

Testing and certification required Y / N    Test pressure: \_\_\_\_\_ psi/Kpa    Date required: \_\_\_\_\_

## Factory use only:

Price & Delivery: \_\_\_\_\_

Assembly Cost (excl GST & Freight)

Including Test: Y / N

Delivery Date: \_\_\_\_\_