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SPLTS: FLEXIBLE HOSES - INDUSTRIAL VALVES - HYDRAULIC FITTINGS

# Composite Hose



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2015 CERTIFIED COMPANY



UDYAM REGISTRATION :  
UDYAM-MH-19-0002724

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## COMPOSITE HOSE

Composite Hoses are manufactured on the mandrel wrapped principle and consist of an inner wire spiral upon which layers of fabric and film are wrapped and wound with an external wire spiral.

The tension between each wire spiral gives the hose its pressure capability.

A hose's end application determines what materials will be used in its assembly.

### **These can include:**

Polypropylene, Polyester and Polyamide.

The wire helices can be of galvanised steel, aluminium, stainless steel, or polypropylene-coated steel.

The following are the common supply but other special application products can be supplied.





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## TRANSFUEL COMPOSITE HOSE



### Description

Composite hose made from polypropylene fabrics and films with an abrasion resistant PVC coated fabric cover, reinforced with internal and external wire helices. The hose contains a barrier layer for 100% aromatic hydrocarbons.

### Principal Applications

Transfuel is a suction and discharge hose mainly for the transfer of petroleum products by road, rail tankers and loading gantries. It is not advisable to use this hose with aviation fuels due to possible contamination from zinc flakes.

### Colour Code

Green outer cover with yellow or marked white stripe

### Wires

**Transfuel - (Inner)** Galvanised zinc coated mild steel **(Outer)** Galvanised zinc coated mild steel

### Standards

Manufactured to the specifications where applicable of EN 13765 Type 2 and AS 2683 Type 1 Grade 1,2 and 3

### Temperature

Depending on the conveyant -30°C to +80°C.

### Supply Lengths - standard

25-100mm - 20 metres  
150mm - 10 metre

### Product Code

TF\_\_ \_Transfuel

### Specifications

Nominal Bore (mm)	Outside Dia (mm)	Bend Radius (mm)	Pressure Nominal (psi)	Pressure Nominal (bars)	Weight / Metre (kg)
25	32	50	100	7	1.20
38	50	75	100	7	1.40
50	62	80	100	7	1.70
65	78	90	100	7	2.60
75	89	125	100	7	3.10
100	114	220	100	7	4.10
150	168	320	100	7	7.80

### Safety factor:

10 bars at 4:1 per EN 13765 | 7 bars at 6:1 per AS 2683

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## PETROFUEL LIGHT COMPOSITE HOSE



### Description

Composite hose made from polypropylene fabrics and films with an abrasion resistant PVC coated fabric cover, reinforced with internal and external wire helices. The hose contains a barrier layer for 100% aromatic hydrocarbons.

### Principal Applications

Petrofuel Light is a light weight suction discharge hose mainly for the transfer of petroleum products by road and rail tankers, for applications where the weight of the hose is an issue. The aluminium inner wire provides the lighter weight. The crush resistance of the hose is not as good as with a hose with steel/steel wire.

### Colour Code

Yellow outer cover with marked white stripe.

### Wires

**Petrofuel Light - (Inner)** Aluminium      **(Outer)** Galvanised zinc coated mild steel

### Standards

Manufactured to the specifications where applicable of EN 13765 Type 1 and AS 2683 Type 1 Grade 1,2 & 3.

### Temperature

Depending on the conveyant -20°C to +60°C.

### Supply Lengths - standard

50-100mm - 20 metres

### Product Code

PFL\_\_\_Petrofuel

### Specifications

Nominal Bore (mm)	Outside Dia (mm)	Bend Radius (mm)	Pressure Nominal (psi)	Pressure Nominal (bars)	Weight / Metre (kg)
50	61	80	60	4	1.20
65	76	90	60	4	1.80
75	88	115	60	4	2.20
100	112	200	60	4	3.00

### Safety factor 6:1

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## VRH VAPOR RECOVERY COMPOSITE HOSE



### Description

Composite hose made from polypropylene fabrics and films with an abrasion resistant PVC coated fabric cover, reinforced with internal and external wire helices.  
The hose contains a barrier layer for 100% aromatic hydrocarbons.

### Principal Applications

VRH is suitable for the transfer of hydrocarbon vapours and is used generally within the petroleum industry for their vapour recovery systems.

### Colour Code

Black outer cover with wide yellow or marked white stripe.

### Wires

**VRH - (Inner)** Galvanised zinc coated mild steel      **(Outer)** Galvanised zinc coated mild steel

### Standards

Manufactured to the specifications where applicable of EN13765 Type 1, AS 2683 and AS 5602.

### Temperature

Depending on the conveyant -20°C to +60°C.

### Supply Lengths - standard

100mm      - 20 metres  
150-200mm - 10 metres

### Product Code

VRH\_\_ \_ Vapor Recovery

### Specifications

Nominal Bore (mm)	Outside Dia (mm)	Bend Radius (mm)	Pressure Nominal (psi)	Pressure Nominal (bars)	Weight / Metre (kg)
100	114	200	20	1.5	3.10
150	168	320	20	1.5	6.00
200	225	500	20	1.5	10.00

### Safety factor:


2.5 bars at 4:1 per EN 13765  
1.5 bars at 6:1 per AS 2683

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## TRANSOIL COMPOSITE HOSE



### Description

Composite hose made from polypropylene fabrics and films with an abrasion resistant PVC coated fabric cover, reinforced with internal and external wire helixes.

The hose contains a barrier layer for 100% aromatic hydrocarbons.

The hose can be covered with rope lagging for external protection if required.

### Principal Applications

Transoil is especially suitable for the suction and discharge transfer of petroleum products in in-plant and light duty dockside applications.

It is an excellent hose for conveying tallow and high aromatic hydrocarbons.

### Colour Code

Black outer cover with yellow or marked white stripe.

### Wires

**Transoil - (Inner)** Galvanised zinc coated mild steel **(Outer)** Galvanised zinc coated mild steel

### Standards

Manufactured to the specifications where applicable of EN 13765 Type 2 and AS 2117 Type 2 Grade 1 & 2.

### Temperature

Depending on the conveyant -30°C to +80°C.

### Supply Lengths - standard

25 - 100mm - 20 metres

150-200mm - 10 metres

### Product Code

TO\_\_\_Transoil

### Specifications

Nominal Bore (mm)	Outside Dia (mm)	Bend Radius (mm)	Pressure Nominal (psi)	Pressure Nominal (bars)	Weight / Metre (kg)
25	38	90	150	10	1.30
38	52	120	150	10	1.60
50	64	150	150	10	2.00
65	80	180	150	10	2.70
75	92	250	150	10	3.20
100	115	350	150	10	6.00
150	170	480	150	10	9.00
200	230	600	150	10	13.00

### Safety factor of 4:1

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## TRANSDOCK COMPOSITE HOSE



### Description

Composite hose made from heavy duty polypropylene fabrics and films with a double layer of abrasion resistant PVC coated fabric cover, reinforced with internal and external wire helices.

The hose contains a barrier layer for 100% aromatic hydrocarbons.

The hose can be covered with rope lagging for external protection if required.

### Principal Applications

Transdock is suitable for the heavy duty suction and discharge transfer of petroleum products in road and rail tanker, dockside and ship to shore applications.

Transdock-S has the added suitability for applications involving corrosive atmospheres and splash.

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 7mtr/sec (23 feet/sec).

### Colour Code

Royal Blue outer cover with marked white stripe

### Wires Transdock

**Transdock - (Inner)** Galvanised zinc coated mild steel **(Outer)** Galvanised zinc coated mild steel

**Transdock-S- (Inner)** Galvanised zinc coated mild steel **(Outer)** SS316

### Standards

Manufactured to the specifications where applicable of EN 13765 Type 3 (100-200mm) Type 2 (250mm), and AS 2117 Type 2 Grade 1 & 2, and IMO IBC Code.

### Temperature

Depending on the conveyant -30°C to +80°C.

### Supply Lengths - standard

100 - 250mm - 10 metres

### Product Code

TD\_\_\_ Transdock

TDS\_\_\_ Transdock-S

### Specifications

Nominal Bore (mm)	Outside Dia (mm)	Bend Radius (mm)	Pressure Nominal (psi)	Pressure Nominal (bars)	Weight / Metre (kg)
100	120	430	200	14	7.50
150	175	550	200	14	11.00
200	240	750	200	14	16.00
250	295	1000	150	10	22.00

### Safety factor:

14 bars at 4:1 per EN 13765 and AS 2117 | 11 bars at 5:1 per IMO IBC Code

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## SOLCHEM COMPOSITE HOSE



### Description

Composite hose made from polypropylene fabrics and films with an abrasion resistant PVC coated fabric cover, reinforced with internal and external wire helices. The hose can be covered with rope lagging for external protection if required.

### Principal Applications

Solchem is suitable for the transfer of various acids and alkalines where the conveyant may be corrosive to the galvanised inner wire. Solchem-S has the added suitability for applications involving corrosive atmospheres and splash.

### Colour Code

Orange outer cover with blue or marked white stripe.

### Wires Transdock

**Transdock - (Inner) SS316 (Outer) Galvanised zinc coated mild steel**  
**Transdock-S- (Inner) SS316 (Outer) SS316**

### Standards

Manufactured to the specifications where applicable of EN 13765 Type 2.

### Temperature

Depending on the conveyant -30°C to +80°C.

### Supply Lengths - standard

25 - 100mm - 20 metres  
 150-200mm - 10 metres

### Product Code

SC\_\_Solchem  
 SCS\_\_Solchem-S

### Specifications

Nominal Bore (mm)	Outside Dia (mm)	Bend Radius (mm)	Pressure Nominal (psi)	Pressure Nominal (bars)	Weight / Metre (kg)
25	38	90	150	10	1.20
38	52	120	150	10	1.60
50	64	150	150	10	1.80
65	80	180	150	10	2.50
75	92	210	150	10	2.90
100	120	340	150	10	5.30
150	174	480	150	10	9.00
200	230	600	150	10	13.00

### Safety factor of 4:1

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## TRANSCHEM COMPOSITE HOSE



### Description

Composite hose made from polypropylene fabrics and films with an abrasion resistant PVC coated fabric cover, reinforced with internal and external wire helixes.

### Principal Applications

Transchem is suitable for the transfer of acids and alkalines.

Transchem-S has the added suitability for applications involving corrosive atmospheres and splash.

**Note:** Electrical continuity can be maintained for this hose by baring the inner wire (ie removing the polypropylene coating) near the fitting to allow positive connection of the wire to the fitting. This process however may introduce a potential corrosion path to the inner wire so care needs to be taken

### Colour Code

Grey outer cover with red or marked white stripe.

### Wires Transdock

**Transchem - (Inner)** Polypropylene coated steel wire **(Outer)** Galvanised zinc coated mild steel  
**Transchem-S- (Inner)** Polypropylene coated steel wire **(Outer)** SS316

### Standards

Manufactured to the specifications where applicable of EN 13765 Type 2.

### Temperature

Depending on the conveyant -30°C to +80°C.

### Supply Lengths - standard

25 - 100mm - 20 metres

### Product Code

TD\_\_\_ Transchem  
TDS\_\_\_ Transchem-S

### Specifications

Nominal Bore (mm)	Outside Dia (mm)	Bend Radius (mm)	Pressure Nominal (psi)	Pressure Nominal (bars)	Weight / Metre (kg)
25	38	90	150	10	1.30
38	52	125	150	10	1.60
50	64	160	150	10	1.80
65	80	180	150	10	2.60
75	92	220	150	10	3.00
100	120	350	150	10	5.40


### Safety factor of 4:1

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## SOLFLON COMPOSITE HOSE



### Description

Composite hose made from polypropylene fabrics and films with an abrasion resistant PVC coated fabric cover, reinforced with internal and external wire helices. The hose is lined with layers of PTFE film. The hose can be covered with rope lagging for external protection if required.

### Principal Applications

Solflon is suitable for the transfer of the most aggressive chemicals and searching solvents. The PTFE liner has a low co-efficient of friction making the hose also suitable for the conveyance of high viscosity products such as paint.

Solflon-S has the added suitability for applications involving corrosive atmospheres and splash.

### Colour Code

Red outer cover with white stripe.

### Wires Transdock

**Solflon - (Inner) SS316 (Outer) Galvanised zinc coated mild steel**

**Solflon-S- (Inner) SS316 (Outer) SS316**

### Standards

Manufactured to the specifications where applicable of EN 13765 Type 2.

### Temperature

Depending on the conveyant -30°C to +80°C.

### Supply Lengths - standard

25 - 100mm - 20 metres

150-200mm - 10 metres

### Product Code

SFE\_\_\_ Solflon

SFES\_\_\_ Solflon-S

### Specifications

Nominal Bore (mm)	Outside Dia (mm)	Bend Radius (mm)	Pressure Nominal (psi)	Pressure Nominal (bars)	Weight / Metre (kg)
25	38	90	150	10	1.20
38	52	120	150	10	1.60
50	64	150	150	10	1.80
65	80	180	150	10	2.50
75	92	210	150	10	2.90
100	120	340	150	10	5.30
150	170	480	150	10	9.00
200	230	600	150	10	13.00

### Safety factor of 4:1

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## CHEMDOCK COMPOSITE HOSE



### Description

Composite hose made from heavy duty polypropylene fabrics and films with a double layer of abrasion resistant PVC coated fabric cover, reinforced with internal and external wire helices. The standard manufacture is with SS316 inner and outer wires - see below for other options. The hose can be covered with rope lagging for external protection if required.

### Principal Applications

Chemdock is suitable for heavy duty suction and discharge of bulk chemicals in road and rail tanker, dockside and ship to shore applications.

The addition of the PTFE liner in Chemdock-E makes it suitable for the most aggressive chemicals and searching solvents.

### Colour Code

Royal Blue outer cover with marked white stripe

### Wires Transdock

<b>Chemdock</b>	- (Inner) SS316	- (Outer) SS316
<b>Chemdock-G</b>	- (Inner) SS316	- (Outer) Galvanised zinc coated mild steel
<b>Chemdock-P</b>	- (Inner) Polypropylene coated steel	- (Outer) SS316
<b>Chemdock-PG</b>	- (Inner) Polypropylene coated steel	- (Outer) Galvanised zinc coated mild steel
<b>Chemdock-E</b>	- (Inner) SS316	- (Outer) SS316

### Standards

Manufactured to the specifications where applicable of EN 13765 Type 3 (100-200mm) Type 2 (250mm), and AS 2117 Type 2 Grade 1 and 2, and IMO IBC Code.

### Temperature

Depending on the conveyant -30°C to +80°C.

### Supply Lengths - standard

100 - 250mm - 10 metres

### Product Code

CD_ _ _	Chemdock (standard)
CDG_ _ _	Chemdock-G
CDP_ _ _	Chemdock-P
CDPG_ _ _	Chemdock-PG
CDE_ _ _	Chemdock-E



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## CHEMDOCK COMPOSITE HOSE

### Specifications

Nominal Bore (mm)	Outside Dia (mm)	Bend Radius (mm)	Pressure Nominal (psi)	Pressure Nominal (bars)	Weight / Metre (kg)
100	120	430	200	14	7.50
150	175	550	200	14	11.00
200	240	750	200	14	16.00
250	295	1000	150	10	22.00

### Safety factor

14 bars at 4:1 per EN 13765 and AS 2117

11 bars at 5:1 per IMO IBC Code

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## BITUFLEX COMPOSITE HOSE



### Description

Composite hose made from polyester fabrics and films with an aromatic barrier layer, reinforced with internal and external wire helices.

### Principal Applications

Bituflex is suitable for the transfer of bitumen and tar at elevated temperatures, primarily for wand/hand bar applications.

### Safety Note

Bitumen is generally handled at elevated temperatures. Medical specialists advise that burns from bitumen usually affect the full thickness of skin, generally requiring a skin graft. Use of suitable personal protective equipment is strongly recommended.

### Colour Code

White outer fabric cover with word 'Bituflex' stencilled.

### Wires Transdock

**Bituflex - (Inner)** Galvanised zinc coated mild steel - **(Outer)** Galvanised zinc coated mild steel

### Standards

Manufactured to the specifications where applicable of EN 13765 Type 4.

### Temperature

Bituflex is suitable for temperatures to +150°C continuous and to +180°C in surges, however, pressure capability ratings would be reduced by 50% when temperatures exceed 100°C.

### Supply Lengths - standard

25 - 100mm - 20 metres

### Product Code

BF\_\_\_Bituflex

### Specifications

Nominal Bore (mm)	Outside Dia (mm)	Bend Radius (mm)	Pressure Nominal (psi)	Pressure Nominal (bars)	Weight / Metre (kg)
25	38	130	150	10	1.30
38	50	160	150	10	1.70
50	65	210	150	10	2.20
65	75	270	150	10	2.90
75	90	300	150	10	3.50
100	120	400	150	10	6.40

### Safety factor of 4:1

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## CRYOGAS COMPOSITE HOSE



### Description

Composite hose made from polyester fabrics and films, reinforced with internal and external wire helices. The fabric and films used in Cryogas have been selected due to their excellent resistance to low temperatures and their retention of flexibility

### Principal Applications

Cryogas is suitable for conveying a wide range of low temperature refrigerated conveyants including Liquefied Natural Gas (LNG), Liquid Nitrogen and Liquid Ethylene. To transport gases, it is standard practice to liquefy them either by refrigeration to low temperatures or by pressurisation.

### Colour Code

White outer cover

### Wires

Cryogas- (Inner) SS316 - (Outer) SS316

### Standards

Manufactured to the specifications where applicable of EN 13766 Class A Type 2 (for onshore use) and IMO IGC Code (for offshore use).

### Temperature

Temperature range from -196°C to +45°C

Hose may be further protected and insulated by adding an external polyester rope lagging.

### Supply Lengths - standard

25 - 100mm - 20 metres

150-200mm - 10 metre

### Product Code

CG\_ \_ \_Cryogas

### Specifications

Nominal Bore (mm)	Outside Dia (mm)	Bend Radius (mm)	Pressure Nominal (psi)	Pressure Nominal (bars)	Weight / Metre (kg)
25	38	150	180	13	0.90
38	52	175	180	13	1.20
50	65	200	180	13	2.00
65	80	200	180	13	2.80
75	93	250	180	13	3.30
100	120	500	180	13	7.50
150	174	660	180	13	12.90
200	230	910	180	13	18.80

### Safety factor

13 bars at 4:1 per EN 13766 | 10.5 bars at 5:1 per IMO IGC Code

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# ★★★★★ REAL HYDROFIT & CO.®

SPLTS: FLEXIBLE HOSES - INDUSTRIAL VALVES - HYDRAULIC FITTINGS

## TRANSGAS COMPOSITE HOSE



### Description

Composite hose made from polyester and polyamide fabrics and films, reinforced with internal and external wire helices.

### Principal Applications

Transgas hose in general is suitable for the transfer of cryogenic conveyants down to – 50°C, liquid petroleum gas (LPG) handling and can be used for other conveyants as per Conveyant Compatibility Guides. To transport LPGs, it is standard practice to liquefy them either by refrigeration down to -50C, or by pressurisation at approximately 20 Bar pressure at ambient temperature.

### Colour Code

White outer cover with green stripe.

### Wires

Transgas - (Inner) SS316 - (Outer) SS316

### Standards

Manufactured to the specifications where applicable of EN 13766 Class A Type 1 (25-100mm), IMO IGC Code and AS 1869 Class E (25-100mm).

Note : the 150 and 200mm hoses have a lower pressure rating than the above Standards and due care must be taken in their selection.

### Temperature

Temperature range from -50°C to +45°C.

### Supply Lengths - standard

25 - 100mm - 20 metres  
150 - 200mm - 10 Metres

### Product Code

TG\_\_ \_Transgas

### Specifications

Nominal Bore (mm)	Outside Dia (mm)	Bend Radius (mm)	Pressure Nominal (psi)	Pressure Nominal (bars)	Weight / Metre (kg)
25	38	150	360	25	1.60
38	50	175	360	25	2.20
50	65	200	360	25	2.80
65	80	200	360	25	3.60
75	93	250	360	25	5.60
100	120	500	360	25	9.70
150	174	660	150	10	13.80
200	230	910	150	10	22.20

### Safety factor

25 bars at 4:1 per EN 13766 | 20 bars at 5:1 per IMO IGC Code

**NOTE:** This information is for guidance only, dimensions and weights shown are approximate. We reserve the right to alter or amend specifications as deemed necessary.



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SPLTS: FLEXIBLE HOSES - INDUSTRIAL VALVES - HYDRAULIC FITTINGS

## TRANSHEAT COMPOSITE HOSE



### Description

Composite hose made from polyester fabrics and films with an aromatic barrier layer and an outer cover of fibreglass, reinforced with internal and external wire helices. The outer cover of fibreglass provides an additional insulation layer enhancing operational safety.

### Principal Applications

Transheat is suitable for the transfer of most hot fluids at elevated temperatures.

### Colour Code

White outer fabric cover with word 'Transheat' stencilled.®

### Wires

**Transheat - (Inner)** Galvanised zinc coated mild steel - **(Outer)** Galvanised zinc coated mild steel

### Standards

Manufactured to the specifications where applicable of EN 13765 Type 4.

### Temperature

Transheat is suitable for temperatures to +150°C continuous and to +200°C in surges, however, pressure capability ratings would be reduced by 50% when temperatures exceed 100°C.

### Supply Lengths - standard

25 - 100mm - 20 metres

### Product Code

TH\_ \_ \_

### Specifications

Nominal Bore (mm)	Outside Dia (mm)	Bend Radius (mm)	Pressure Nominal (psi)	Pressure Nominal (bars)	Weight / Metre (kg)
25	38	130	150	10	1.30
38	50	160	150	10	1.70
50	65	210	150	10	2.20
65	75	270	150	10	2.90
75	90	300	150	10	3.50
100	120	400	150	10	6.40

### Safety factor 4:1

**NOTE:** This information is for guidance only, dimensions and weights shown are approximate. We reserve the right to alter or amend specifications as deemed necessary.



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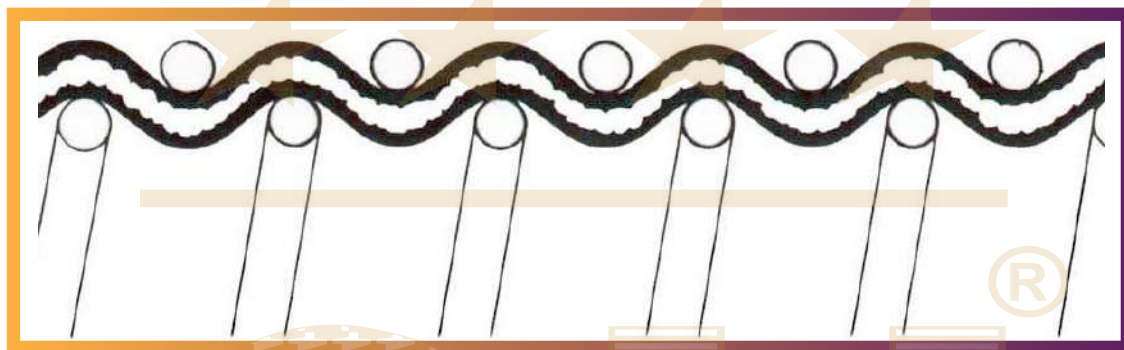
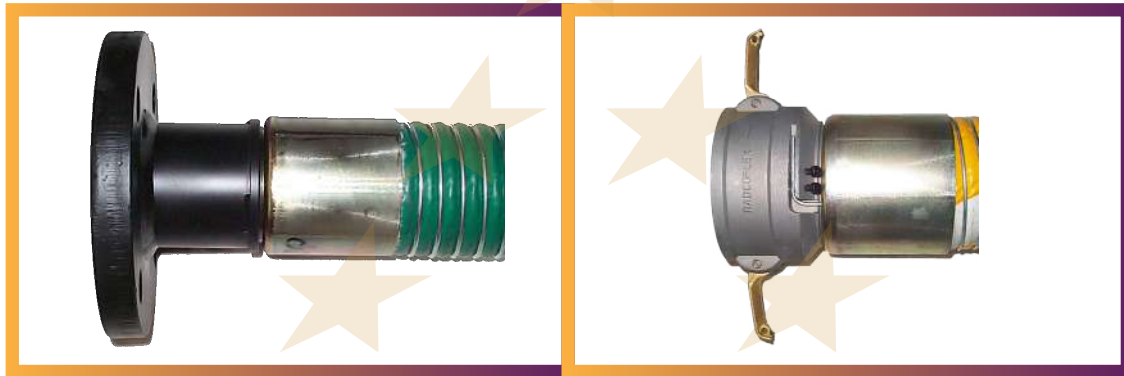




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SPLTS: FLEXIBLE HOSES - INDUSTRIAL VALVES - HYDRAULIC FITTINGS

## HOSE STYLES & STANDARDS **COMPOSITE HOSE**



### Description

Composite hoses are manufactured on the 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.

The final selection of the materials depends upon the application for the hose.

Composite hoses are classified under a group number which refers to their chemical resistance suitability. A copy of a Chemical Compatability Chart is available from Realhydrofit upon request.

### Standards and Tolerances

Realhydrofit Composite Hoses are manufactured in accordance with generally recognised industry standards including European Standards EN 13765 and EN 13766, and Australian Standards AS 2117 and AS 2683, and Australian Institute of Petroleum Code of Practices.

Our Composite Hoses are tested in accordance with International Standard ISO 1402, British Standard BS 5173 and Australian Standard AS 1180.

### Ordering

Composite hose is generally ordered by its nominal bore (inside diameter) size. The working pressure stated in the data sheets are at ambient temperature (20°C).

Realhydrofit reserves the right to change the specification of any product and/or withdraw it from its range of products without notice.



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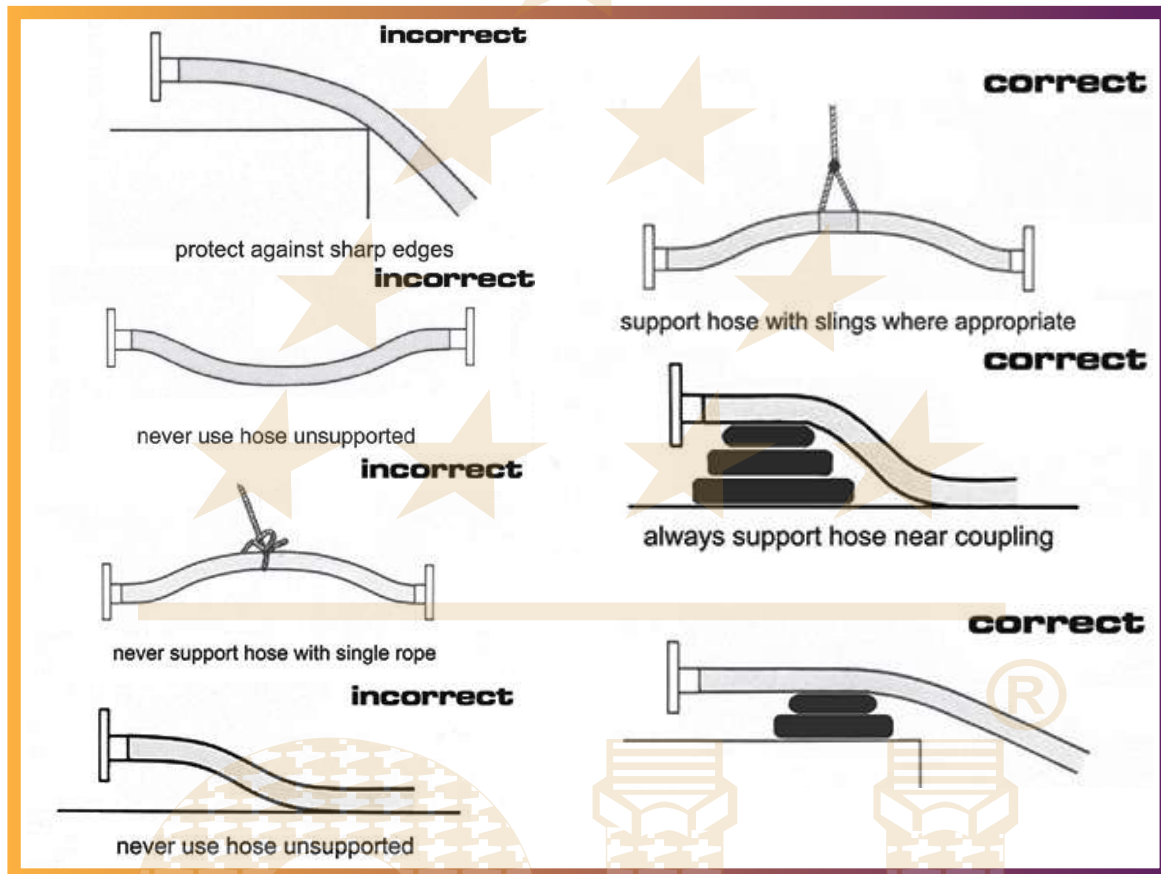
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## CARE & MAINTENANCE COMPOSITE HOSE



### 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 overflexed 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
- It is recommended that flanged assemblies 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.

Large bore hoses should be carried on a dollie or moved by crane.

Hoses must not be supported by a single rope or wire.

A wide belt sling should be used, supporting the hose at least every 3 metres.

Avoid curvatures that are less than the minimum bend radius of hose.

Do not allow sharp bends adjacent to the end connection fitting - this area is the weakest spot in any type of hose. Support the hose.

Hoses should not be dragged along the ground or over guard rails.

Do not allow the hose to chafe (rub) against hard surfaces and/or sharp edges.

If unavoidable, consider having the hoses rope lagged.





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## HOSE ASSEMBLY TESTING COMPOSITE HOSE

### Hydrostatic Testing

Composite hoses should be hydrostatically tested with water at least once every twelve (12) months.

The test pressure should be no greater than 1.5 times the proposed working pressure of the assembly as determined by the lower of the assembly's actual working pressure or the maximum working pressure as listed in the product data sheets (see note below).

Some Standards and Codes call for a lower test pressure and where the assembly is operating under this code, the lower test pressure calculation should be used. For example, the Australian Institute of Petroleum Code of Practice CP27 calls for testing at only 1.25 times the nominated working pressure.

**note:** Where the hose and end coupling working pressures differ, the maximum working pressure of the assembly is that of the lowest rated component - see also 'end connections composite hose assemblies' data sheet.

Elongation is not a satisfactory way of judging deterioration of a composite hose, as by its method of manufacture some elongation is to be expected.

### Electrical Continuity Test

Fuel and Oil Group 1 composite hoses should be tested for correct electrical continuity at least once every six (6) months or in accordance with relative industry standards. By laying the hoses on dry ground and testing with an approved electrical measuring device, hoses can be checked that they meet the electrical continuity specifications shown on the original Realhydrofit tag attached to the hose. Hoses not meeting these specifications should be retired from service and returned to Realhydrofit for possible repair.

The electrical continuity of other composite hoses with inner and outer wire can also be checked if required however, the electrical continuity of Transchem cannot be checked due to the polypropylene coating on the inner wire.

To check Transchem, the inner metal of the wire would need to be exposed (from the polypropylene cover), which would create an opening for future corrosive attack.

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## ROPE LAGGING COMPOSITE HOSE



### Description

Our range of composite can be supplied polypropylene rope lagged for insulation or to protect the hose from abrasion. The table below lists the standard polypropylene rope sized and the weight added to the composite hose when lagged.

nominal diameter mm	rope diameter mm	lagging weight kg/M
25	8	0.50
38	8	0.70
50	8	0.80
65	10	1.25
75	10	1.50
100	12	2.00
125	12	2.10
150	12	2.90
200	15	3.90
250	15	4.80





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## END CONNECTIONS COMPOSITE HOSE

### End Connections

Realhydrofit are able to supply a full range of end connections to suit our composite hoses such as male and female quick release couplings, flanges, male threads and female swivel nuts. Other special fittings to customers specifications are available on request.

### Pressure Ratings

Quick release couplings (camlocks) may not have a pressure rating as high as the hose to which they are attached. The applicable pressure rating for the completed assembly will be the lower of the hose or the fitting. Please check table below for the pressure rating of quick release couplings.

Quick Release Couplings Max. Pressure									
Pressure		Fitting Diameter (mm)							
psi	kpa	25	32	38	50	65	75	100	150
50	350			P	P		P		
75	525								AB
100	700	p						AB	
125	875						AB		
150	1050					AB		S	
200	1400					S	S		
250	1725	ABS	ABS	ABS	ABS				

### Materials Codes

A - aluminium

B - bronze

P - polypropylene

S - stainless steel 316

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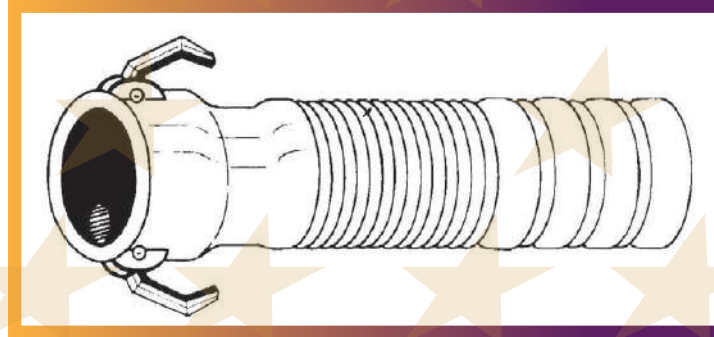
SPLTS: FLEXIBLE HOSES - INDUSTRIAL VALVES - HYDRAULIC FITTINGS

## END CONNECTIONS COMPOSITE HOSE

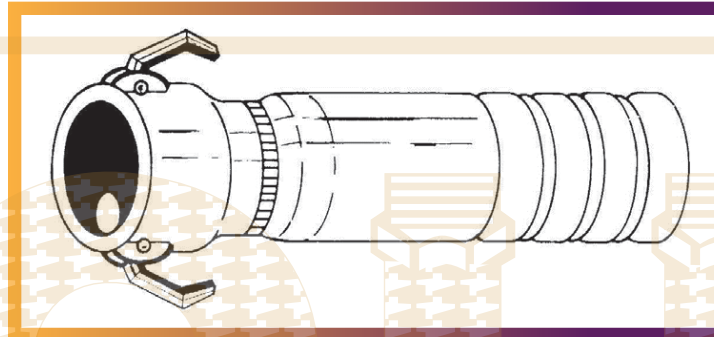
### Attachment Methods

Realhydrofit engineers have developed the most modern machines for the attachment of end fittings including hydraulic external power swaging and mechanical high tension wire whipping machines.

#### TYPICAL WIRE WHIPPED ATTACHMENT



#### TYPICAL SWAGED ATTACHMENT



### Fuel Hose Fittings

We have developed special OHMSEAL and OHMLOCK camlocks whereby both the inner and outer wire of the hose is locked directly to the camlock with grub screws. This ensures positive electrical contact that can be seen and easily checked with- out disconnecting or degassing the assembly. The OHMSEAL fitting is for use on swaged attachments and the OHMLOCK is for wire whipped attachments.



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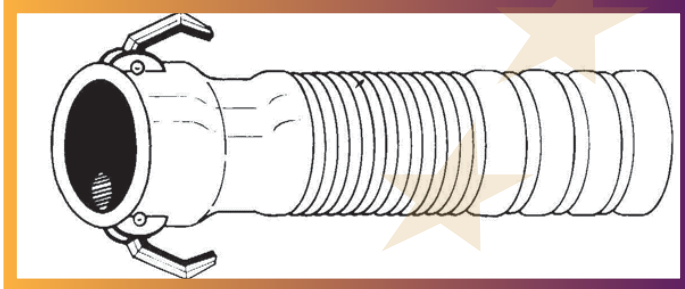


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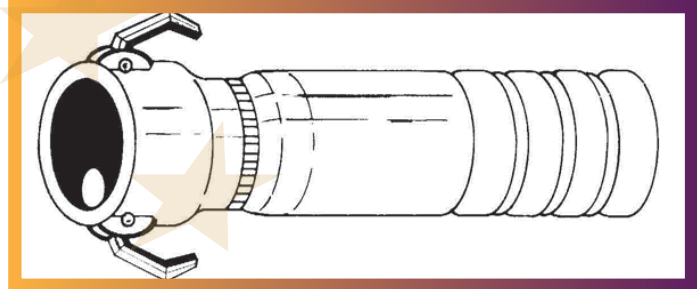
SPLTS: FLEXIBLE HOSES - INDUSTRIAL VALVES - HYDRAULIC FITTINGS

## TYPICAL END CONNECTIONS COMPOSITE HOSE

**TYPICAL WIRE WHIPPED ATTACHMENT**



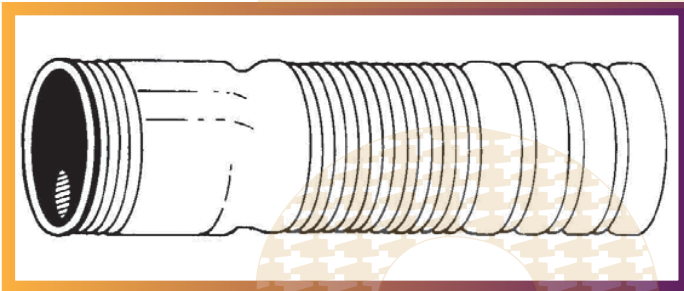
**TYPICAL SWAGED ATTACHMENT**



### Materials Codes

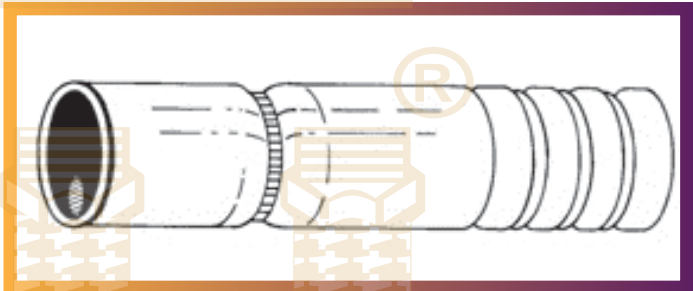
A- aluminium B- bronze C- carbon steel P- polypropylene S- stainless steel 316

**THREADED PIPE**



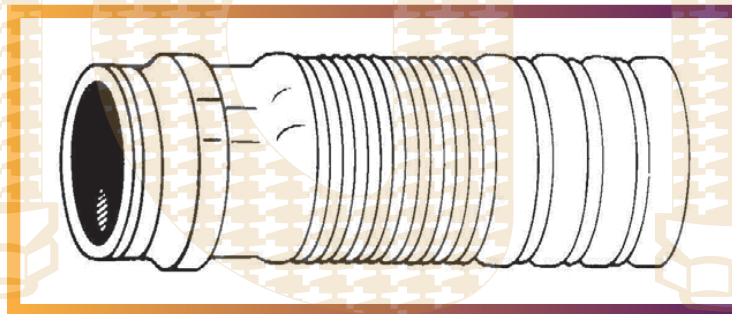
THREADS BSP, NPT with HEX NIPPLE  
MATERIALS - A, B, C, S

**LIFESAVER - PIPE END SCH 40**



MATERIALS - C, S

**MALE QUICK COUPLING**



MATERIALS - A, B, P, S



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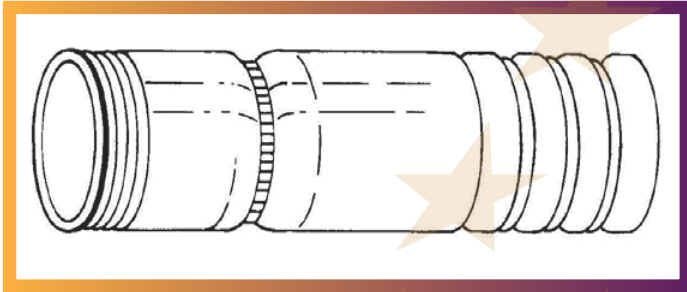


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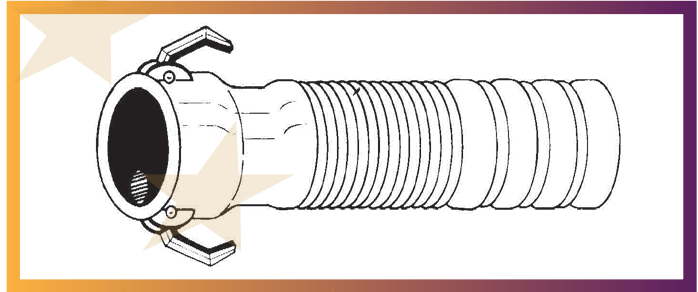
**TYPICAL END CONNECTIONS COMPOSITE HOSE**

**HEX NIPPLE**



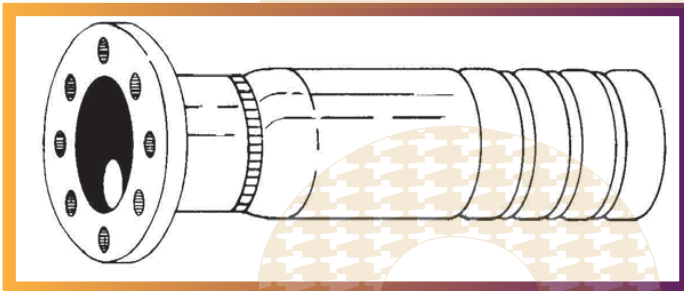
THREADS BSP, NPT  
MATERIALS - C, S

**FEMALE QUICK COUPLING**



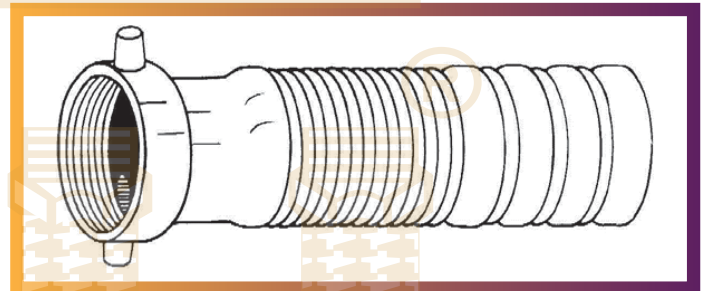
AVAILABLE IN STRAIGHT & BENT STYLES  
MATERIALS - A, B, P, S

**FIXED FLANGE**



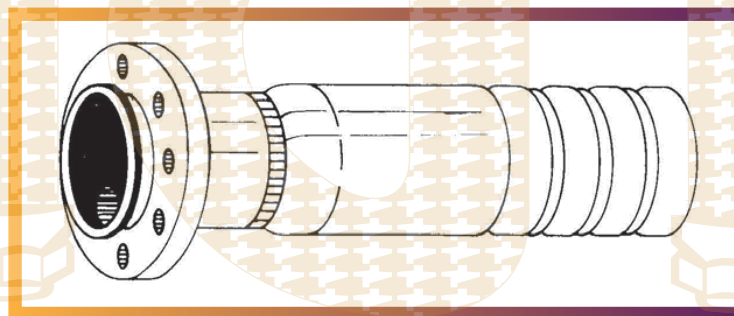
STANDARDS BST, ANSI, DIN, JIS, NTT  
MATERIALS - C, S

**LOOSE SWIVEL**



STYLE - WITH LUGS OR HEX THREADS BSP  
MATERIALS - A, B, C, S

**FLOATING FLANGE**



STANDARDS BST, ANSI, DIN, JIS, NTT  
MATERIALS - C, S



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Udyog Aadhaar				
B	Type of Enterprise	Micro	Small	Medium
	Manufacturing	A	B	C
	Services	D	E	F
UAN		MH1990048230		

**Udyog Aadhaar Memorandum**

- Aadhaar Number: 74286041320
- PAN Number: ADUPM382L
- Name of Entrepreneur: AMIR ABDULHUSAIN MASTA
- Social Category of Entrepreneur: GENERAL
- Gender: Male
- Physically Handicapped: No
- Name of Enterprise: REAL HYDROFIT AND CO
- Type of Organization: Proprietary
- Location of Plant Details

SN	Flat/Door/Block No.	Name of Premises/Building	Village	Road/Street/ Lane	Area/Locality	City	Pin	State	District
1	UNIT NO.4, GROUND FL.	OLD ATLAS MILL COMPOUND		210, REAY ROAD (W)	REAY ROAD	MUMBAI	40010	MAHARASHTRA	MUMBAI CITY

Official Address of Enterprise

514/A, SUSSEX INDUSTRIAL ESTATE, D.K. CROSS ROAD, BYCULLA (E), MUMBAI

District: MUMBAI CITY State: MAHARASHTRA PIN: 400027

Mobile No: 9869078630 Email: sales@realhydrofit.com

Date of commencement: 29/03/1962

Previous Registration details-if any: -

Bank Details

IFS Code: UBN0531626

Bank Account: 316201010036101

14. Major Activity: MANUFACTURING

SN	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit Code	Activity Type
1	23	2399	23999 - Manufacture of other non-metallic mineral products n.e.c. (includes asbestos yarn and fabric, and articles of asbestos yarn and fabric such as clothing, headgear, footwear, confectionery, paper or felt, friction material with a basis of asbestos or other mineral substances or of cellulose including unmounted articles such as friction material; mineral insulating material (slag wool, rockwool and similar mineral wools, expanded vermiculite, expanded clays and similar insulating material); products of glass wool for heat-insulating; articles of asphalt or similar material (e.g. coal tar pitch), gypsum and articles of other mineral substances)	Manufacturing
2	32	3200	32000 - Other manufacturing n.e.c.	Manufacturing

17. Persons employed: 21

18. Investment (Plant & Machinery / Equipments): 50/Rs. In Lakhs

19. District Industry Centre: MUMBAI CITY

**Declaration**  
I hereby declare that information given above is true to the best of my knowledge. Any information, that may be required to be verified, shall be provided immediately before the concerned authority.

MyMeme Mobile App (Beta Version) is available now for download: <http://tiny.cc/mymemeapp>

CERTIFICATE @ CERTIFIKAT @ 証明書 @ CERTIFIKA @

**Certificate**

CDG Certification Limited certifies that

**Real Hydrofit & Co.**

(Brand Name: Speedway Products)

514/515/A, Sussex Industrial Estate, D.K. Cross Road, Byculla (E), Mumbai-400027 Maharashtra / INDIA

OLO Atlas Mill Compound, Unit No. 4, Ground Floor 210, Reay Road (W), Mumbai-400010 Maharashtra / INDIA

Has established and applies a Quality Management System for following scope of activities:

**Manufacturer & Stockiest of Flexible Hoses & Hydraulic Fittings**

The Management System of the above organization has been audited and found to be in accordance with the requirements of management system standards detailed below.

## ISO 9001 : 2008

Certificate Registration No. CCL/QMS/21335

Originally registered: 26/06/2014. Latest issue: 26/06/2014. Expiry Date: 22/06/2017

Validity of certificate is subject to the continued satisfactory operation of the organization's Management System.

Managing Director

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## CERTIFICATE

Certificate of Compliance

We confirm that the technical documentation for the below mentioned products according to the Council Directive 97/23/EC Pressure equipment (PED)

Products:

**Industrial Rubber Hoses, Hydraulic Hoses, Marine Industrial Hoses, Gas & Pharmaceutical Hoses, High Temperature Hoses, Bellows, Industrial Fittings, Industrial Valves, Hydraulic Fittings, Fitting Equipments, Quick Release Couplings, Industrial Hose Ends, Industrial Accessories, PTFE Expansion Bellows, Industrial Coupling & Fire Fighting Hose**

Manufactured by company:

**Real Hydrofit & Co.**

514/515/A, Sussex Industrial Estate, D.K. Cross Road, Byculla (E), Mumbai-400027 Maharashtra India

OLO Atlas Mill Compound, 210, Reay Road (W), Mumbai-400010 Maharashtra India

is complying to the applicable essential requirements of Directive 97/23/EC Pressure equipment (PED).

The Regal Quality Registrars Inc. has conducted with successful results the review of the manufacturer's technical documentation of the certified according to above mentioned Directives.

This certificate is issued under the following conditions:

- It applies only to the above referenced set of products mentioned above. The manufacturer is obligated to assure that all products of the respective model conform to the type assessed by this certificate.
- The Certificate validity is conditioned by the positive results of the surveillance audits.
- The Certificate remains valid until the manufacturing conditions, the quality systems or relevant legislation are changed but until the 20<sup>th</sup> Jul 2017.
- After fulfilling the relevant EU legislation requirements, the manufacturer shall affix to each product of the above referenced models, CE Marking according to the following example:

Certificate No. CE-2248

Date of registration: 27<sup>th</sup> Jul 2014

Date of this certificate: 27<sup>th</sup> Jul 2014

Date of expiry: 20<sup>th</sup> Jul 2017

Authorized Signatory  
Regal Quality Registrars Inc.

Statement: This certificate is conditionally based on the evaluation of a sample of the above mentioned products. It does not imply an endorsement of the manufacturer or the product. The certification body should be informed in advance of any modification or alterations made to the above mentioned product types. The manufacturer is responsible for the product and ensuring that all manufactured products are in compliance with the specifications declared in the technical construction file.

Further certifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by contacting the organization. Check [www.regalqualityregistrars.co.uk](http://www.regalqualityregistrars.co.uk) for current status of the certificate. Where all due care and skill was exercised in carrying out the assessment, RQR accepts responsibility only for gross negligence. This certificate remains property of RQRIS to whom it must be returned upon request.

This Certificate is valid as long as the organization meets RQRIS requirements. The status of the certificate may be checked at [www.regalqualityregistrars.co.uk](http://www.regalqualityregistrars.co.uk)

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# OUR MORE PRODUCTS

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## PRESSURE GAUGES

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## TUBES & PIPE FITTINGS

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## PIPE CLAMPS

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 SPLTS: VALVE - FLEXIBLE HOSES - HYDRAULIC FITTINGS

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