

# Hydrocarbon Products

*The majority of hydrocarbons found naturally occur in crude oil, where decomposed organic matter provides an abundance of carbon and hydrogen. Hydrocarbons are one of the Earth's most important energy resources. The predominant use of hydrocarbons is as a combustible fuel source. In their solid form, hydrocarbons take the form of asphalt.*

*The range of composite hose suitable for the safe handling and transfer of hydrocarbon products includes:*

- *Fuel Code 1000 is the most common transfer hose for road and rail tankers, storage tanks, production plant and equipment*
- *Fuel Code 1001 is used for the same applications as above but at a lower working pressure with a better flexibility characteristic*
- *Fuel Code 1003 is also used for the same applications as above but the aluminum inner wire gives it a lighter weight, low pressure good flexibility characteristic*
- *VRH 400 is our vapour recovery hose for hydrocarbon loading and unloading applications*
- *Fuel Code 901 is the most common transfer hose for fuel, heavy oils and lubricants in storage tanks, production equipment and ship to shore applications, this hose has a higher pressure rating*
- *Fuel Code 982 is a heavy duty oil transfer hose for ship to shore and dock side applications*
- *Hot Products Code 966 is suitable for suction and delivery of hydrocarbon products such as tar and bitumen at an elevated temperature*

## Australian Industry Standards

### **AS 2683 Title of Standard:**

*Hose and hose assemblies for distribution of petroleum and petroleum products. (Excepting LPG)*

### **AS 2117 Title of Standard:**

*Hose and hose assemblies for petroleum and petroleum products—Marine suction and discharge*

### **AS 1180 Title of Standard:**

*Methods of test for hose made from elastomeric materials*

## International Industry Standards

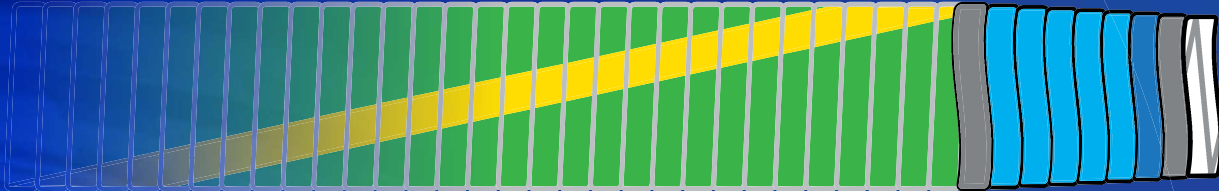
### **BS3492 Title of Standard:**

*Specification for road and rail tanker hoses and hose assemblies for petroleum products, including aviation fuels.*

### **IMO BCH CODE Title of Standard:**

*Code for the construction and equipment of ships carrying dangerous chemicals in bulk.*

# Fuel Code 1000 GG



## Construction

**Inner Materials:** Polypropylene fabrics and film selected according to chemical resistance and strength.

**Reinforcement:** Internal wire of galvanised steel.  
External wire of galvanised steel.

**Outer Cover:** Green PVC coated Fabric with reflective yellow stripe.

## Applications

Transfer hoses for road and rail tankers, storage tanks, production plant and equipment.

## Australian Industry Standard

Complies with the AS 2683

**Type:** 1

**Grade:** 3

**Electrical kind:** 1

**Test Pressure:** 2 x working pressure

**Burst Pressure:** 6 x working pressure

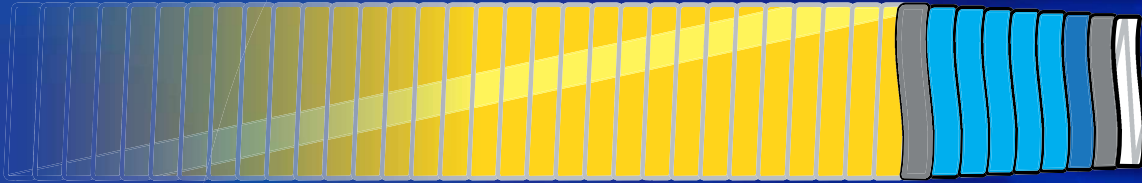
**Temperature Range:** -20 up to 55°C

Product Number	Nominal ID		OD	Pressure Bar			Minimum Bend Radius	Weight	Standard Coil Length
				at 20°C as per AS 2683					
	in	mm	mm	working	test	burst	mm	Kg/m	m
CH1000-025	1	25	37	7	14	42	60	0.89	25
CH1000-032	1 1/4	32	43	7	14	42	75	1.03	25
CH1000-040	1 1/2	40	51	7	14	42	75	1.58	25
CH1000-050	2	50	63	7	14	42	90	1.68	25
CH1000-065	2 1/2	63	76	7	14	42	100	2.64	25
CH1000-080	3	76	90	7	14	42	125	3.17	25
CH1000-100	4	100	114	7	14	42	200	4.05	25

Note: Other coil lengths can be manufactured on request

- Standard end connections used for these types of hoses are made of Aluminium, Stainless Steel and Brass.
- We stock our own Aluminium Petro-lock end connections, specifically developed for the loading and unloading of hydrocarbon products
- Always check chemical compatibility for the inner and outer wire, the hose lining, the end connections and seals.

# Fuel Code 1001 GG



## Construction

**Inner Materials:** Polypropylene fabrics and film selected according to chemical resistance and strength.

**Reinforcement:** Internal wire of galvanised steel.  
External wire of galvanised steel.

**Outer Cover:** Yellow PVC coated Fabric with reflective yellow stripe.

## Applications

Transfer hoses for storage tank, production plant and equipment with lower operating pressures with a higher flexibility.

## Australian Industry Standard

Complies with the AS 2683

**Type:** 1

**Grade:** 3

**Electrical kind:** 1

**Test Pressure:** 2 x working pressure

**Burst Pressure:** 6 x working pressure

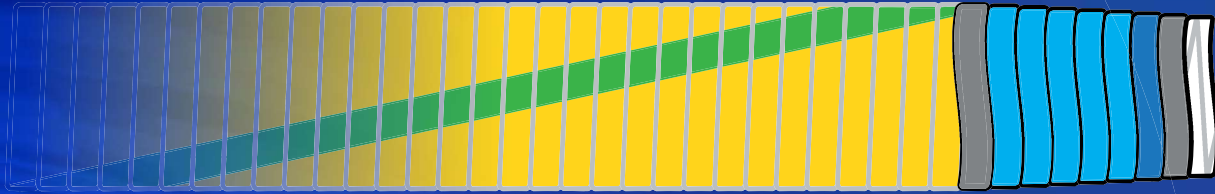
**Temperature Range:** -20 up to 55°C

Product Number	Nominal ID		OD	Pressure Bar			Minimum Bend Radius	Weight	Standard Coil Length
				at 20°C as per AS 2683					
	in	mm	mm	working	test	burst	mm	Kg/m	m
CH1001-040	1 1/2	40	49	4	8	24	65	1.48	25
CH1001-050	2	50	61	4	8	24	80	1.53	25
CH1001-065	2 1/2	63	74	4	8	24	90	2.53	25
CH1001-080	3	76	88	4	8	24	115	3.08	25
CH1001-100	4	100	112	4	8	24	190	3.86	25

Note: Other coil lengths can be manufactured on request

- Standard end connections used for these types of hoses are made of Aluminium, Stainless Steel and Brass.
- We stock our own Aluminium Petro-lock end connections, specifically developed for the loading and unloading of hydrocarbon products
- Always check chemical compatibility for the inner and outer wire, the hose lining, the end connections and seals.

# Fuel Code 1003 AG light weight



## Construction

**Inner Materials:** Polypropylene fabrics and film selected according to chemical resistance and strength.

**Reinforcement:** Internal wire of aluminium.  
External wire of galvanised steel.

**Outer Cover:** Yellow PVC coated Fabric with reflective green stripe.

## Applications

Light weight transfer hoses for storage tank, production plant and equipment with lower operating pressures with a higher flexibility.

## Australian Industry Standard

Complies with the AS 2683

**Type:** 1

**Grade:** 3

**Electrical kind:** 1

**Test Pressure:** 2 x working pressure

**Burst Pressure:** 6 x working pressure

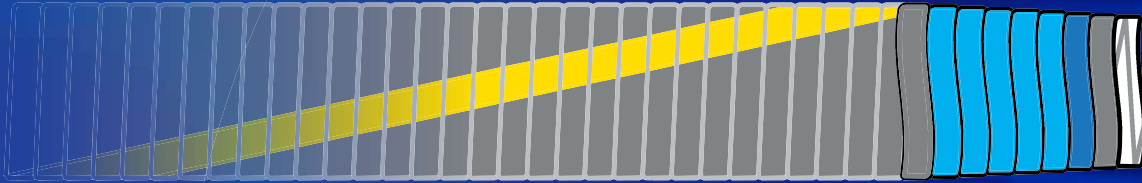
**Temperature Range:** -20 up to 55°C

Product Number	Nominal ID		OD	Pressure Bar			Minimum Bend Radius	Weight	Standard Coil Length
				at 20°C as per AS 2683					
	in	mm	mm	working	test	burst	mm	Kg/m	m
CH1003-065	2 1/2	63	74	4	8	24	90	1.91	25
CH1003-080	3	76	88	4	8	24	115	2.37	25
CH1003-100	4	100	112	4	8	24	190	2.93	25

Note: Other coil lengths can be manufactured on request

- Standard end connections used for these types of hoses are made of Aluminium, Stainless Steel and Brass.
- We stock our own Aluminium Petro-lock end connections, specifically developed for the loading and unloading of hydrocarbon products
- Always check chemical compatibility for the inner and outer wire, the hose lining, the end connections and seals.

# Vapour Recovery Hose 400 GG



## Construction

**Inner Materials:** Polypropylene fabrics and film selected according to chemical resistance and strength.

**Reinforcement:** Internal wire of galvanised steel.  
External wire of galvanised steel.

**Outer Cover:** Black PVC coated Fabric with reflective yellow stripe.

## Applications

For the collection of hydrocarbon vapours within the oil industry.

## Australian Industry Standard

Complies with the AS2683

**Type:** 1

**Grade:** 3

**Electrical kind:** 1

**Test Pressure:** 2 x working pressure

**Burst Pressure:** 6 x working pressure

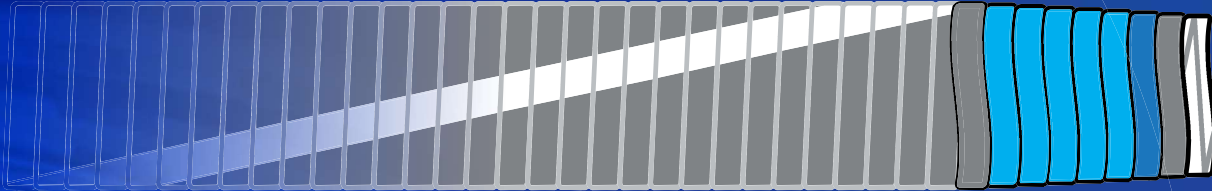
**Temperature Range:** - 20 up to 55°C

Product Number	Nominal ID		OD	Pressure Bar			Minimum Bend Radius	Weight	Standard Coil Length
	in	mm		at 20°C as per AS 2683					
			mm	working	test	burst	mm	Kg/m	m
CHVRH-100	4	100	112	4	8	24	190	3.80	25

Note: Other coil lengths can be manufactured on request

- Standard end connections used for this types of hoses are made of Aluminium only
- We stock our own Aluminium Vapour-lock and Petro-Lock end connections, specifically developed for the loading and unloading of hydrocarbon vapours

# Oil Code 901 GG



## Construction

**Inner Materials:** Polypropylene fabrics and film selected according to chemical resistance and strength.

**Reinforcement:** Internal wire of galvanised steel.  
External wire of galvanised steel.

**Outer Cover:** Black PVC coated Fabric with reflective white stripe.

## Applications

Light weight transfer hoses for storage tank, production plant and equipment with lower operating pressures with a higher flexibility.

## Australian Industry Standard

Complies with the AS 2117

**Type:** 2

**Grade:** 2

**Electrical kind:** A - continuous

**Test Pressure:** 2 x working pressure

**Burst Pressure:** 4 x working pressure

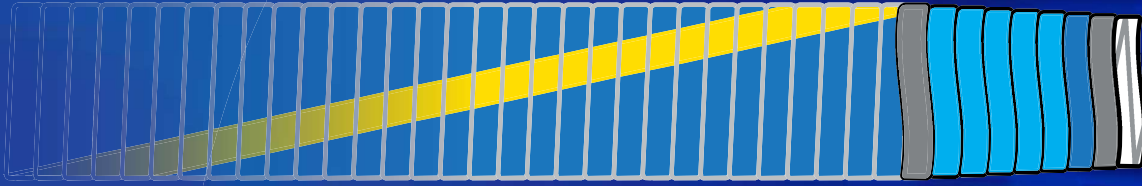
**Temperature Range:** - 20 up to 65°C

Product Number	Nominal ID		OD	Pressure Bar			Minimum Bend Radius	Weight	Standard Coil Length
				at 20°C as per AS 2117					
	in	mm	mm	working	test	burst	mm	Kg/m	m
CH901-025	1	25	37	10	20	40	75	1.04	25
CH901-032	1 1/4	32	43	10	20	40	90	1.12	25
CH901-040	1 1/2	40	51	10	20	40	100	1.63	25
CH901-050	2	50	65	10	20	40	140	1.78	25
CH901-065	2 1/2	63	76	10	20	40	180	2.84	25
CH901-080	3	76	90	10	20	40	210	3.41	25
CH901-100	4	100	120	10	20	40	340	5.52	25
CH901-150	6	150	172	10	20	40	400	9.7	15

Note: Other coil lengths can be manufactured on request

- Standard end connections used for these types of hoses are made of Aluminium, Stainless and Carbon Steel. If there is any load on the hose let us know as we would use a heavy wall series end connection.
- Always check chemical compatibility for the inner and outer wire, the hose lining, the end connections and seals.

# Oil Marine Code 982 GG



## Construction

**Inner Materials:** Polypropylene fabrics and film selected according to chemical resistance strength.

**Reinforcement:** Internal wire of galvanised steel.  
External wire of galvanised steel.

**Outer Cover:** Blue PVC coated Fabric with reflective yellow stripe.

## Applications

Heavy duty oil transfer hose for ship to shore and dock side.

## Australian Industry Standard

Complies with the AS 2117

**Type:** 2

Grade: 2

Electrical kind: A - continuous

Test Pressure: 2 x working pressure

Burst Pressure: 5 x working pressure

Temperature Range: -20 up to 65°C

## International Industry Standard

IMO BCH CODE

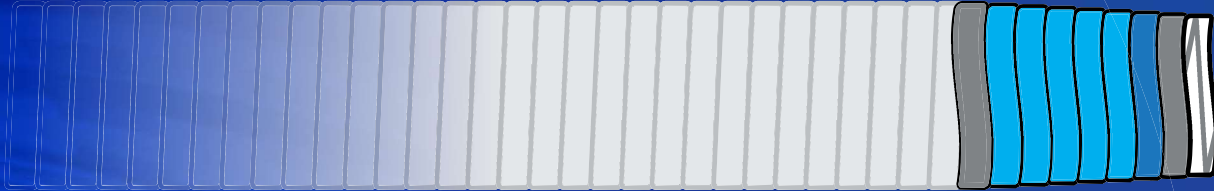
Product Number	Nominal ID		OD	Pressure Bar			Minimum Bend Radius	Weight	Standard Coil Length
	in	mm		at 20°C as per IMO BCH					
			mm	working	test	burst	mm	Kg/m	m
CH982-100	4	100	125	14	28	70	400	6.61	25
CH982-150	6	150	178	14	28	70	450	11.4	15

Note: Other coil lengths can be manufactured on request

Note: Rope lagging available for outside abrasion protection

- Standard end connections used for these types of hoses are made of heavy wall Stainless or Carbon Steel
- We developed our heavy wall series end connections to deal with the higher pressure ratings and some potential load on the hose
- Always check chemical compatibility for the inner and outer wire, the hose lining, the end connections and seals.

# Hot Products Code 966 GG



## Construction

**Inner Materials:** Polyamide films.

**Reinforcement:** Internal wire of galvanised steel.  
External wire of galvanised steel.

**Outer Cover:** White Fabric.

## Applications

Transfer hoses suitable for the suction and delivery of hydrocarbon products such as tar and bitumen at an elevated temperature.

Elevated temperature affect the products pressure rating by -50% when exceeding 100°C.

## Australian Industry Standard

Complies with the AS 2683

**Type:** 1

**Grade:** 3

**Electrical kind:** 1

**Test Pressure:** 2 x working pressure

**Burst Pressure:** 6 x working pressure

**Special Developed Temperature Range:**  
-20 up to 180°C

Product Number	Nominal ID		OD	Pressure Bar			Minimum Bend Radius	Weight	Standard Coil Length
				at 20°C as per AS 2683					
	in	mm	mm	working	test	burst	mm	Kg/m	m
CH966-020	3/4	20	32	10	20	60	70	0.75	25
CH966-025	1	25	37	10	20	60	75	0.96	25
CH966-032	1 1/4	32	43	10	20	60	90	1.16	25
CH966-040	1 1/2	40	51	10	20	60	100	1.62	25
CH966-050	2	50	65	10	20	60	140	1.78	25
CH966-065	2 1/2	63	76	10	20	60	180	2.62	25
CH966-080	3	76	90	10	20	60	210	3.39	25
CH966-100	4	100	120	10	20	60	340	4.30	25

Note: Other coil lengths can be manufactured on request

Note: Drain media from hose after testing, as water and hot products can lead to a dangerous situation

- Standard end connections used for these types of hoses are made of Stainless, Carbon Steel and Brass
- Always check chemical compatibility for the inner and outer wire, the hose lining, the end connections and seals.