

DESIGNATION

OROFLEX

LAYFLAT HOSES



DESIGNATION BRINGS AN IN-DEPTH KNOWLEDGE TO THE OROFLEX PRODUCT BASED ON YEARS OF EXPERIENCE

We have been instrumental in working with the manufacturer to make Oroflex the best product on the market for layflat slurry and irrigation applications. We have listened to contractors using

Oroflex and their constructive feedback has been implemented in making improvements in the product.

We pride ourselves on responding to our customers problems and if the issue can't be resolved over the phone then a representative or one of our team will personally come onsite to help.

OROFLEX10

Oroflex 10 high pressure layflat hose. Reliable and robust yet lightweight and flexible. A superior hose used where ordinary PVC hoses tend to fail.

Oroflex 10 is used in irrigation, sewage and general pumping duties worldwide.

COLOUR Black nitrile rubber and liner.

TEMPERATURE -20°C to +80°C.

SPECIFICATION • Fully complies to BS 6391. • Coils up to 200m.

REINFORCEMENT High tensile circular woven polyester/polyamide jacket.

REMARKS Tensile strength shown in table is calculated at 35% of total effective strength.

APPLICATION Irrigation, slurries, water pumping, air bags.

SPECIAL FEATURES Non-conductive rubber. Ribbed cover for maximum abrasion resistance.

ID (inch)	ID (mm)	Wall (mm)	Coil Size (Metres)	WP (psi)	Bend Radius (mm)	End Pull (Kg)	Weight/M (Gr/mt)
1¼"	30	2	60	200	500	700	270
1½"	38	2	60	200	700	900	310
1¾"	45	2	60	175	900	900	370
2"	51	2	60/100	175	1,100	1,300	450
2½"	63	2	60	175	1,300	1,400	620
	70	2.5	60	175	1,350	1,700	650
3"	76	2.5	60	175	1,450	1,800	680
3¼"	80	2.5	60	150	1,450	1,850	700
3½"	90	2.5	60	150	1,480	2,100	830
4"	102	2.5	60/200	150	1,700	2,400	950
	110	3	60	150	1,800	4,000	1,100
5"	127	3	60	150	2,100	4,200	1,450
6"	152	3	60	150	2,250	5,000	1,650
8"	203	3	60	150	3,000	6,600	2,250
10"	254	3.5	60	120	3,300	8,800	2,800



OROFLEX20

Special Oroflex 20 for sludge/slurry

Premium quality, high pressure layflat hose using a high tensile jacket for slurry/sludge applications.

Special variant used by contractors for sludge/slurry injection or surface spreading.

COLOUR Yellow or black.

TEMPERATURE -25°C to +100°C. Complies to BS 6391.

SPECIFICATION • For use on all slurry systems – can be supplied in 150m lengths. • Assemblies made to order with couplings and repair sleeves fitted.

Size (inch)	Wall (mm)	Coil Size (Metres)	Working Pressure (psi)	Bend Radius (mm)	End Pull (Kg)	Weight/M (Gr/mt)
4"	4.0	200	250	1,700	4,000	1,400
5"	4.0	200	250	1,970	6,000	2,100
6"	4.0	200	250	2,250	7,300	2,100
8"	4.5	200	225	2,250	9,320	2,550



OROFLEX30

Special Oroflex 30 for sludge/slurry

High pressure layflat hose specially designed as a drag hose in sludge and slurry applications. Oroflex 30 is made from a tough polyurethane rubber and is designed to work in tough abrasive environments.

COLOUR Green or blue.

TEMPERATURE -35°C to +70°C.

SPECIFICATION • Materials approved to NSF61 and KTW. • Exceeds WRAS standards.

COVER & LINING Polyurethane.

REINFORCEMENT Polyester jacket.

REMARKS Very hard wearing.

APPLICATION Used as a drag hose for slurry and also for potable water. Compatible with oils and fuels.

SPECIAL FEATURES Lengths of up to 200m.

ID (inch)	ID (mm)	Wall (mm)	Coil Size (Metres)	WP (psi)	Bend Radius (mm)	End Pull (Kg)	Weight/M (Gr/mt)
4"	105	3.3	200	225	1,600	3,100	1,150
4½"	115	3.3	200	200	1,600	3,500	1,250
5"	130	3.3	200	200	1,800	3,900	1,550
6"	152	3.3	200	175	1,800	4,600	1,750



OROFLEX20

Oroflex 20, a hose often copied but never bettered. The most popular hose used by contractors in the UK and Ireland, Oroflex gives many years of reliable service in many demanding applications across the globe.

Stocked in a wide variety of sizes and lengths, Oroflex continues to be the innovative market leader in slurry, irrigation and water transfer worldwide.

COLOUR Yellow Nitrile rubber and liner. Black colour on request. ¾" and 1" can be made in a heavy duty version.

TEMPERATURE -20 °C to +80 °C (intermittently to +100 °C).

SPECIFICATION • Fully complies to BS 6391. • Supplied in coils of up to 200m.

COVER & LINING Nitrile rubber.

REINFORCEMENT High tensile circular woven polyester/polyamide jacket.

REMARKS Pressure data given is for water media. Air applications have a lower pressure rating. *(Please consult with sales office for exact air pressure data).*

APPLICATION Air, water, sludge/slurry, drag hoses. Compressed air breaker hoses. Used as a by-pass on temporary lines discharging hydrocarbons with an aromatic content not exceeding 40%.

SPECIAL FEATURES Non-conductive. Can be used with repair sleeves for extra long service life.

ID (inch)	ID (mm)	Wall (mm)	Coil Size (Metres)	WP (psi)	Bend Radius (mm)	End Pull (Kg)	Weight/M (Gr/mt)
¾"	19	2.5	15/60	300	250	300	180
1"	25	3.5	60	300	250	750	235
	30	3.5	60	300	400	960	290
1½"	38	3.5	60	300	650	1,200	440
1¾"	45	3.5	60	300	750	1,400	520
2"	51	3.5	60	300	1,200	1,500	650
2½"	63	4	60	250	1,250	1,750	750
3"	76	4	200	250	1,300	2,600	950
4"	102	4	200	250	1,700	3,780	1,275
5"	127	4	200	250	1,970	5,980	1,800
6"	152	4	200	250	1,970	7,280	2,100
8"	203	4.5	60	200	2,250	9,320	2,550
10"	252	4.5	60	135	3,000	13,800	4,000
12"	305	4.5	60	120	3,300	16,800	4,800



OROFLEX20-AS[©]

Oroflex 20-AS[©] is a layflat hose designed for the transfer of oils and hydrocarbons.

The use of high grade nitrile rubber gives excellent abrasion properties and superb resistance to many oils, greases and chemicals. A high tensile circular polyester reinforcement gives a high tensile strength both axially and longitudinally.

The circular jacket construction means that the hose behaves like a conventional hose under pressure but then be very compactly stored after use or on reeling systems.

The four equidistant copper braided wires allow for earthing and provide anti-static properties.

COLOUR Yellow or black.

TEMPERATURE -25 °C to +85 °C (intermittent use +95 °C).

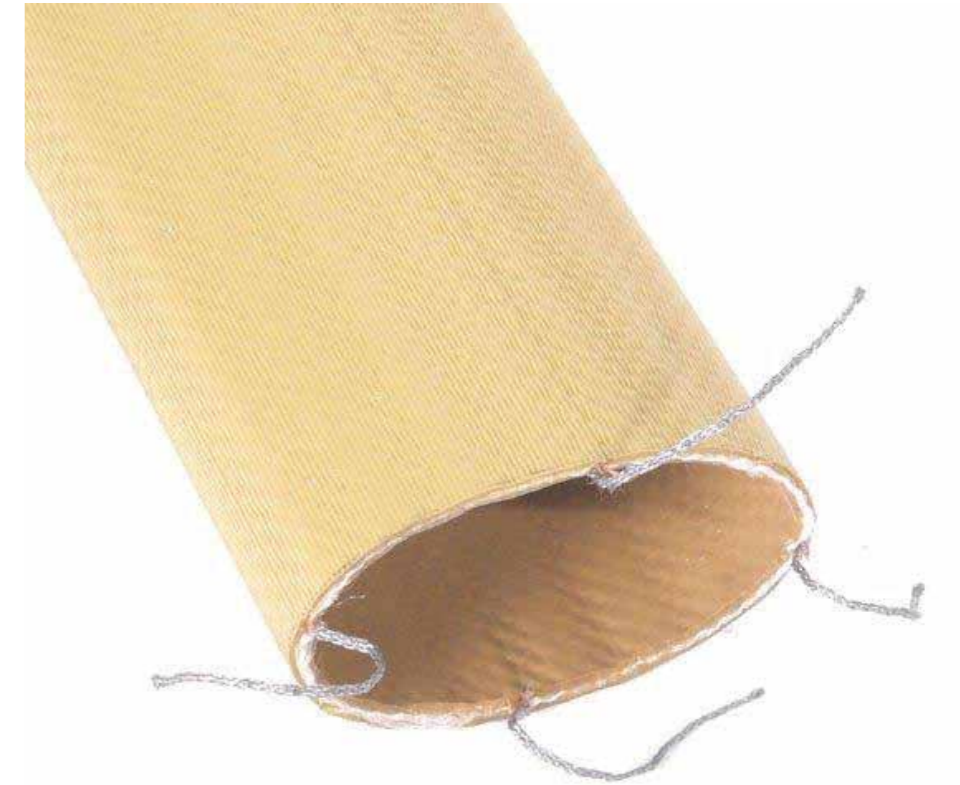
SPECIFICATION • Supplied in coils of up to 200m.

COVER & LINING Nitrile rubber compatible with oils and fuels.

REINFORCEMENT Extruded through the weave construction. Textile – circular woven high tenacity polyester.

SPECIAL FEATURES Electrical resistance – four copper braids having a cross section of 0.5mm² and protected by a braided sheet of polyester yarn. Resistance not to exceed 70,000 Ω/ft according to EN1765.

ID (inch)	ID (mm)	Wall (mm)	Coil Size (Metres)	WP (psi)	Bend Radius (mm)	End Pull (Kg)	Weight/M (Gr/mt)
1"	25	2	60	300	250	750	250
1½"	38	3.3	60	300	650	1200	440
1¾"	45	3.3	60	300	800	1350	500
2"	51	3.3	60	300	1200	1500	650
2½"	63	3.3	60	225	1250	2000	750
3"	76	3.3	60	220	1300	2600	950
4"	102	3.5	60	220	1700	3700	1275



OROFLEX

FLOWSTREAM

OROFLEX FLOWSTREAM IS AN INNOVATIVE FLEXIBLE RISING MAIN SYSTEM DESIGNED FOR USE IN GROUND WATER ABSTRACTION

Developed by a team with over 40 years experience of producing extruded, circular woven polyurethane hoses.

Thousands of wells have been successfully installed worldwide using Oroflex Flowstream hoses.

Oroflex Flowstream has quickly gained worldwide acceptance as a reliable high quality product and is approved for use with drinking water by NSF of America and DVGW of Germany.

The proven design and performance of Oroflex Flowstream ensures a trouble free and cost effective well installation for the pump installer.

Client benefits are many, from lower operating and installation costs to zero water contamination. In addition to these attributes, fast pump servicing (minimal headroom required) and a total resistance to corrosion, scaling and attack by micro organisms mean that Oroflex Flowstream is the perfect partner for the well installer.

AVAILABLE IN TWO TYPES

Oroflex Flowstream for:

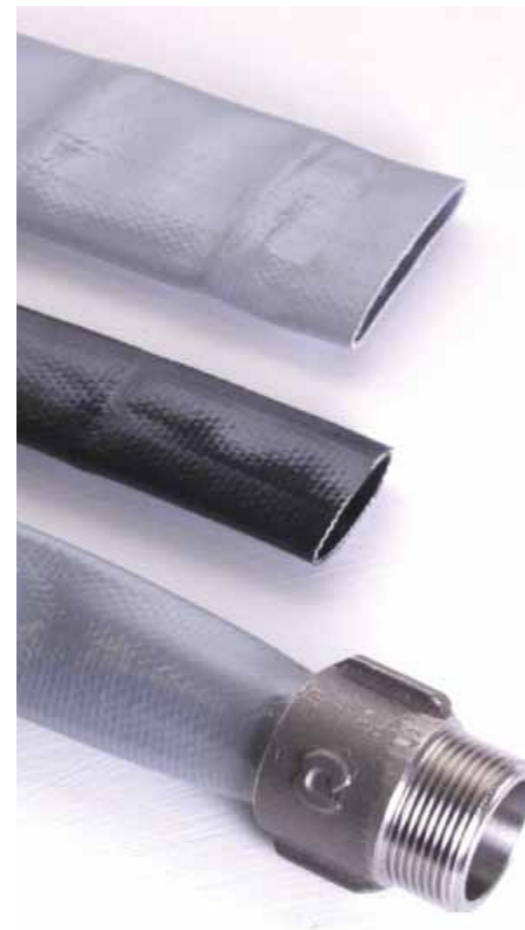
- Industry • Mining • Water utilities

and Oroflex Flowstream Lite for:

- Industrial • Farming • Golf courses
- Domestic use

WHY USE OROFLEX FLOWSTREAM?

- Fully approved to NSF61 (USA) and DVGW (Germany) and to BS6920 (UK)
- Energy efficient
- Ease of handling
- Superb flow characteristics
- Long service life and low maintenance
- Reduced installation costs
- 20 years research and development
- Comprehensive system of couplings and accessories
- 5 year warranty
- Competitive pricing
- UK stockholding for next day deliveries
- Long lengths available



OROFLEX® FLOWSTREAM

COLOUR Blue.

TEMPERATURE -40 °C to +50 °C.

PH RANGE +30 °C - 4-9 all sizes.
+30 °C to +50 °C - 5-9 all sizes.

COUPLINGS Re-usable taper type in 316 stainless steel. Duplex stainless also available on request.

Size (inch)	Hose Weight (Kg/m)	Max. Recommended Flow (lpm)	Max. Working Pressure (Bar)	Max. Depth (m)	Max. Constant Load (Kg)*	Max. Continuous Production Length (m)	Max. Dilatation (%)	Max. Longitudinal Expansion (%)	Max. Theoretical Load (Kg)
1½"	0.35	270	26	260	700	500	15	2	3,450
2"	0.57	485	26	260	1,600	500	15	2	4,000
2½"	0.80	800	26	260	2,200	500	15	2	5,500
3"	0.98	1,080	26	260	2,800	500	15	2	7,000
4"	1.40	1,950	26	260	4,800	500	15	2	12,000
5"	2.00	2,925	26	260	6,000	200	15	2	15,000
6"	2.60	4,320	26	260	8,000	200	15	2	20,000

* (including pump, cables, couplings and column of water)

OROFLEX® FLOWSTREAM LITE

COLOUR Blue (2" size is grey).

COUPLINGS A = Self assembly. B = Expansion ring.

Size (inch)	Max. Pressure (Bar)	Max. Load (Kg)	Maximum Flow (lpm)	Weight (Kg/m)	Max. Depth (m)
1"	15	180	120	0.165	100
1¼"	30	700	200	0.270	300
2"	10	500	340	0.330	100



OROFLEX²⁰ FRACKING HOSE

High pressure and high tensile layflat hose designed for use on land based drilling rigs as a water supply hose in fracking applications.

This hose has been designed to handle severe terrain and operate in rugged conditions and has a high UV resistant.

COLOUR Black.

TEMPERATURE -20° C to +80° C.

SPECIFICATION • Nitrile rubber hose made by the 'through the weave' process. • Fully vulcanised and bonded wall. • Solid wall construction.

COVER & LINING Nitrile/PVC special compound. Highly resistant to chemicals and hydrolysis. No scale build up and resistant to micro organisms.

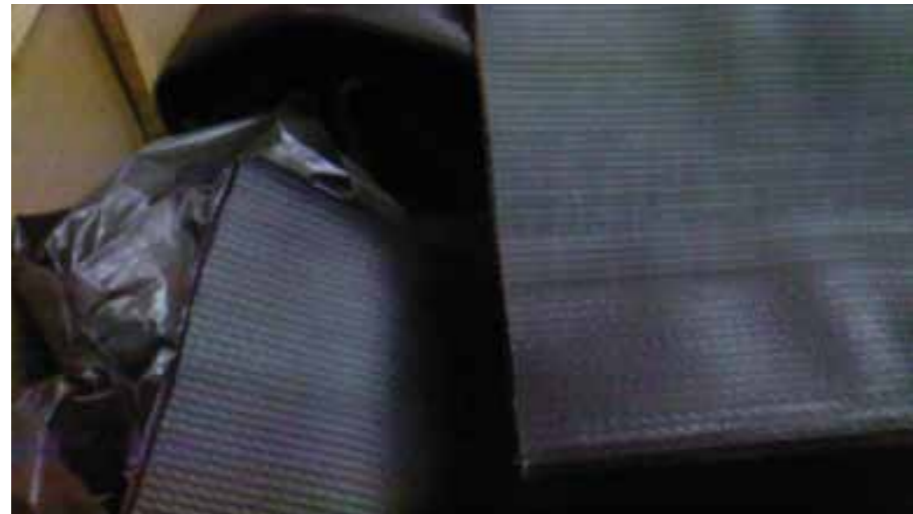
REINFORCEMENT High tenacity circular woven polyester yarns.

REMARKS High UV resistant cover. Resistant to abrasion and for use in rugged environments.

APPLICATION For long distance water pumping at pressure. Lightweight but tough and used when fast deployment and recovery is required. For fracking and general shale gas applications.

SPECIAL FEATURES Made in compliance to ISO 9001:2000 quality management systems.

ID (inch)	ID (mm)	Wall (mm)	Length (Metres)	Working Pressure (psi)	Maximum Tensile	Weight (Kg/m)
4"	105	3	200	20	4,000	1.25
6"	154	4	200	20	7,250	2.20
8"	203	4.5	200	15	9,325	2.75



OROFLEX⁸⁰

Premium quality layflat hose for linear travelling irrigation reels. Resistant to vermin and mildew attack. Also used as a heavy duty dredging hose.

COLOUR Black.

TEMPERATURE -30° C to +80° C.

SPECIFICATION • Fully complies to IA177 and BS 6391. • Special compound to resist UV penetration.

COVER Fine ribbed cover.

REINFORCEMENT Special polyester/nylon mix with very low expansion to eliminate 'snaking'.

APPLICATION Irrigation hose, dredging and high abrasion applications.

SPECIAL FEATURES Non-conductive.

ID (inch)	ID (mm)	Wall (mm)	Coil Size (Metres)	WP (psi)	Bend Radius (mm)	End Pull (Kg)	Weight/M (Gr/mt)
2½"	63	4.5	200	225	1,200	3,100	850
3"	76	4.5	200	225	1,400	4,700	1,100
3½"	90	4.5	200	225	1,500	5,300	1,300
4"	104	4.5	200	150	1,500	7,000	1,500
4½"	114	4.5	200	150	1,700	10,200	1,600
5"	127	4.5	200	150	1,700	12,500	1,900
6"	152	4.5	200	150	1,900	17,600	2,100



OROFLEX HYDROCHEM®

Oroflex Hydrochem® is a new layflat hose designed for the transfer of hydro-carbons and chemicals.

The use of high grade polyurethane gives excellent abrasion properties and superb resistance against many oils, greases and chemicals. A high tensile circular polyester reinforcement offers a very high tensile strength both axially and longitudinally. The circular jacket construction means that the hose behaves like a conventional hose under pressure but then be very compactly stored after use or on reeling systems. The four equidistant copper braided wires allow for earthing and provide anti-static properties.

COLOUR Green, blue, NATO green.

TEMPERATURE -50°C to +60°C (Intermittent use +80°C).

SPECIFICATION • Suitable for PH values 4-9. • Supplied in coils of up to 200m.

COVER & LINING Polyurethane compatible with oils and fuels.

REINFORCEMENT Circular woven high tenacity polyester. Extruded through the weave construction.

REMARKS Oroflex Hydrochem will not corrode and has a very low friction loss resulting in a quick return on investment. Oroflex Hydrochem was formerly known as Oroflex 30 Oil.

APPLICATION Fuels and oils, chemicals, slurries and drinking water.

SPECIAL FEATURES Electrical resistance – four copper braids having a cross section of 0.5mm² and protected by a braided sheet of polyester yarn. Resistance not to exceed 70,000 Ω/ft according to EN1765. Ozone resistance – no cracks after 96 hours at +40°C and 100pphm ozone.

Diameter (inch)	Diameter (mm)	Wall (mm)	Working Pressure (Kg/cm ²)	Burst Pressure (Kg/cm ²)	Weight (Gr/m)
2"	52	2.2	10	42	485
2½"	65	2.2	10	42	520
3"	76	2.4	10	42	640
4"	105	2.6	10	42	875
6"	154	3.3	10	42	1,250



OROFLEX HYDROCHEM-HD®

A very tough yet flexible polyurethane layflat hose designed to meet the requirements of many applications.

The method of construction does not allow corrosion and scale build up and the process forms a single homogenous construction without using glues and adhesives.

In addition, the very high abrasion resistance and resistance to cuts mean this hose will offer many years trouble free service life. No maintenance is required and with a 20% reduction in friction losses when compared with steel, this hose gives a quick return on investment.

COLOUR Blue, although other colours are available on request.

TEMPERATURE -50°C to +50°C. Service temperature is -40°C +50°C (intermittent to +70°C). Brittle point: -70°C.

SPECIFICATION • Suitable for PH values 4-9. • Standard lengths are 200 metres, 100 metres and 50 metres. • Tensile strength – 45 Mpa. • Elongation at break – 610%.

COVER & LINING Polyurethane compatible with oils and fuels.

REINFORCEMENT 100% high tenacity polyester synthetic circular yarns. The textile is then fully encapsulated and protected by a through the weave extrusion process.

REMARKS Service pressure is based on a 2:1 safety factor.

APPLICATION Fuel oils and hydrocarbons, dewatering operations, drinking water applications, refineries and chemical plants, brackish and seawater.

SPECIAL FEATURES Electrical resistance – four anti-static copper wires with a cross section of 0.5mm² and protected by a braided sheet of polyester yarn. Maximum resistance 70,000Ω/ft according to EN1765. Ozone resistance – no cracks after 96 hours at +40°C and 100pphm ozone.

Bore (inch)	Bore (mm)	WP (psi)	Burst Pressure (Kg/cm ²)	Tensile Strength (Kgs)	Weight (Gr/m)	Expansion (%)	Max. Loading (Kgs)
2"	52	435	58	4,000	570	15	1,600
3"	78	435	58	7,000	980	15	2,800
4"	105	435	58	12,000	1,400	15	4,800
6"	154	435	58	20,000	2,610	15	8,000



OROFLEX

LAYFLAT HOSES



DESIGNATION

www.oroflex.co.uk
www.desihose.com

Telephone: 01733 893333
Designation Limited, Newark Road, Eastern Industry,
Peterborough, England PE1 5YD.

bsi. ISO9001: 2008 Certificate No. FS580237
ISO14001: 2004 Certificate No. EMS580238
ISO18801: 2007 Certificate No. OHS 580239