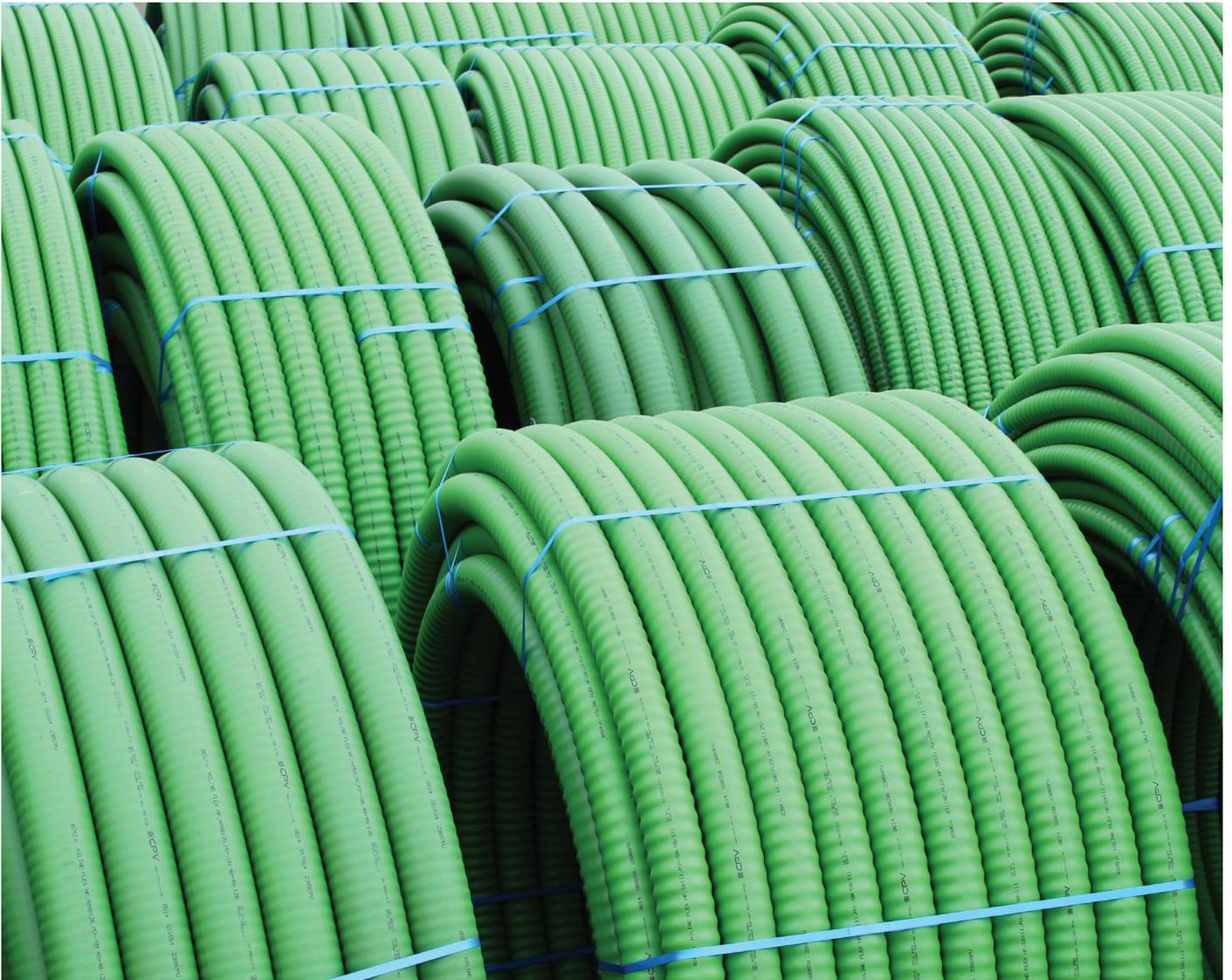


PE-XA PIPE SYSTEM



HILINE FLEX

An efficient, flexible and reliable pre-insulated PE-Xa pipe system for heating applications

INTRODUCTION

Hiline Flex is a flexible pipe system that has been specifically designed for low-temperature district heating applications.

Service Pipe

Cross-linked polyethylene (PE-Xa) with an oxygen diffusion barrier (EVOH) with a choice of single or double service pipes.

Insulation

CFC-free flexible rigid polyurethane foam with excellent insulation values (0.0216 W/mK).

Outer Casing

A tough, corrugated outer casing of LDPE in a distinctive green colour.

Operational Performance

Manufactured in accordance with EN 15632-1 /-2 standards, Hiline Flex district heating pipes can operate at a pressure of 6 bar and a constant temperature of 80 °C with allowable peaks of 95 °C.

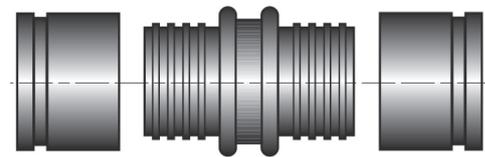
Flexible and Easy Installation

Being flexible, existing buried services and obstacles can be easily bypassed and the shortest pipe routes chosen – without the restrictions posed by traditional rigid pre-insulated pipe systems.

Hiline Flex district heating pipe is delivered to site in coils and their long delivery lengths enable pipes to be laid in the ground largely without joints. This means that the pipe trench can be considerably narrower and, in turn, ensures considerable savings on work below ground, especially as with the Hiline Flex DUO pipe system.

Secure Jointing System

Installing service pipe connections is very simple. The joints are fitted quickly and reliably with axial compression joints and there's a wide range of accessories ensures that solutions can be chosen for every possible situation.



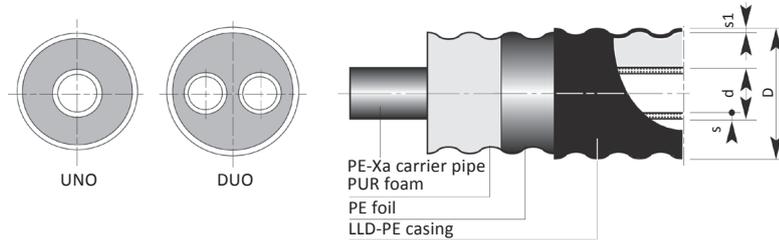
Outer casing joints are equally as straight forward, with a range of pre-determined joint kits to ensure a secure and trouble-free operation - even in areas with a high water table.



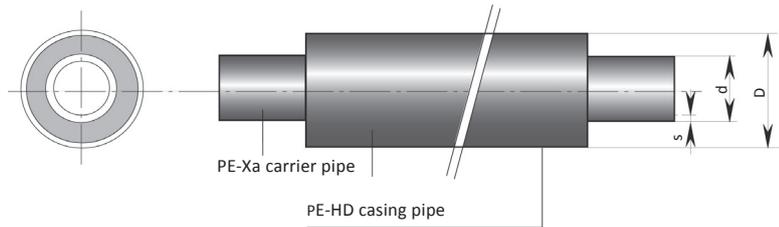
HILINE FLEX UNO/DUO RANGE

Heating, 6 bar

Hiline Flex in coils:
Dimensions:
HF 25/76 - 140/202



Hiline Flex in straight lengths:
Dimensions:
HF 160/250



Hiline Flex heating, 6 bar, UNO

Type	carrier	Nominal	Outer casing	Minimum	Volume	Weight	Max length	Part Number
	d x s	DN	D x s1	bending radius	Carrier pipe		Maxi coil	
	mm		mm	m	l/m	kg/m	m	
25/ 76	25 x 2.3	20.4	78 x 1.9	0.45	0.32	0.90	1000	HF.2576.PU-/GN
32/ 76	32 x 2.9	26.2	78 x 1.9	0.50	0.53	1.00	1000	HF.3276.PU-/GN
40/ 91	40 x 3.7	32.6	93 x 2.1	0.55	0.83	1.39	715	HF.4091.PU-/GN
50/111	50 x 4.6	40.8	113 x 2.3	0.60	1.30	1.97	450	HF.50111.PU-/GN
63/126	63 x 5.8	51.4	128 x 2.7	1.00	2.07	2.60	291	HF.63126.PU-/GN
75/142	75 x 6.8	61.4	143 x 2.9	0.70	2.96	3.39	260	HF.75142.PU-/GN
90/162	90 x 8.2	78.6	163 x 3.2	1.00	4.25	4.56	149	HF.90162.PU-/GN
110/162	110 x 10.0	90	163 x 3.2	1.10	6.36	5.10	149	HF.110162.PU-/GN
110/182	110 x 10.0	90	183 x 3.3	1.20	6.36	5.68	86	HF.110182.PU-/GN
125/182	125 x 11.4	102.2	183 x 3.3	1.30	8.20	6.37	86	HF.125182.PU-/GN
140/202	140 x 12.7	114.6	202 x 3.3	1.40	10.31	7.60	80	HF.140202.PU-/GN
160/250	160 x 14.6	130.8	250 x 3.9	-	13.43	11.31	12*	HF.160250.PU-/BK

*Straight lengths

Hiline Flex heating, 6 bar, DUO

Type	HFX carrier pipe	Nominal	Outer casing	Minimum	Volume	Weight	Max length	Part Number
	d x s	DN	D x s1	bending radius	Carrier pipe		Maxi coil	
	mm		mm	m	l/m	kg/m	m	
25 + 25/ 91	2 x 25 x 2.3	20.4 + 20.4	93 x 2.1	0.55	2 x 0.32	1.34	715	HF.252591.PD-/GN
32 + 32/111	2 x 32 x 2.9	26.2 + 26.2	113 x 2.3	0.60	2 x 0.53	1.87	450	HF.3232111.PD-/GN
40 + 40/126	2 x 40 x 3.7	32.6 + 32.6	128 x 2.7	1.00	2 x 0.83	2.48	291	HF.4040126.PD-/GN
50 + 50/162	2 x 50 x 4.6	40.8 + 40.8	163 x 3.2	1.10	2 x 1.30	3.96	149	HF.5050162.PD-/GN
63 + 63/182	2 x 63 x 5.8	51.4 + 51.4	183 x 3.3	1.20	2 x 2.07	5.28	86	HF.6363182.PD-/GN

* Supplied cut to customer-specified lengths
The delivered coil length may vary (+/- 5%)

- The delivered coil dimensions will vary according to lengths ordered, but will be no larger than 2,800mm in diameter and 800 to 1,200mm wide

About CPV Ltd

Founded in 1948, and the first British company to manufacture pre-insulated pipe systems for district heating applications, CPV operates in a wide array of sectors, with products satisfying many applications. Our state-of-the-art production facility - based at the site of our headquarters near Romsey in Hampshire - is backed by a comprehensive selection of research, design, engineering, testing, quality, training and support services; ensuring the perfect marriage between our products and the applications they serve.

District Heating Pipe Systems

World-class support Services

At CPV we pride ourselves by the way in which we support our customers – from the moment that they first contact us through to their long-term operation and maintenance of a pre-insulated pipe network. As manufacturer, it's important to us to ensure that our systems deliver exceptional performance throughout their working life. Therefore, we have established an array of world-class support services that help our clients every step of the way.

Design and Stress Analysis

There are many factors that will affect the long-term integrity of a pre-insulated pipe system. Correctly identifying and dealing with the potential for thermal expansion of the pipe system is a critical element of the design process and we employ state-of-the-art sisKMR specialist stress analysis software tools.

Training

Training installers, supervisors and maintenance operatives, our brand new training centre allows for not only the theory, but hands-on practical experience in the correct method for installing the Hiline pipe systems. In addition to this, we also offer training courses in the design, installation, commissioning and maintenance of electronic surveillance systems – including the use of our own buried pipe network, on which we can simulate moisture faults as part of the practical training.

For further information on any of the above services, please contact us using the details below or visit our website www.cpv.co.uk

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Follow us on Twitter: @CPVltd
Follow us on LinkedIn: /cpv-limited

Tool sales and hire

We offer both the sale and short-term hire of all the specialist tools required to install the Hiline pipe system.

On-site support services

Whether it's on-site training, site supervision or specialist advice, support and maintenance – our engineers are at hand to provide customer support as and when required.

Drawings

We can prepare detailed design drawings and as installed drawings that accurately record a completed system's on-site dimensions.



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