



SteelFlex Overview

Application	SteelFlex pipes minor house er	•	e FlexPipe syst	em for district hea	ating distribution	on networks and	
	The long FlexPipes make SteelFlex very usable for: • branch pipes without joints • passage of vegetation and other obstacles • hilly areas • tunnelling and thrust-bore methods						
	•	Continuous operating temperature 120°C Max operating pressure 25 bar					
	Applicable together with installation methods I-III and in connection with branching from pipes, installed according to installation method IV.						
	SteelFlex pipes	comply with EN	15632-4.				
Description	SteelFlex pipes 100 m.	are available in c	coils of 50 or				
	Measure,	Outer casing, a	ð out. mm		Di		
	approx.	77	90				
	D _i	1600	1600				
	D _e	2200	2300				
	H ₅₀	300	350			•	
	H ₁₀₀	425	475	•	De		
Materials	Steel pipe:			E 195 + N accord	ling to S2 EN	10305-3	
	Insulation: Polyurethane foam						
	Blowing agent: Cyclopentane						
	Diffusion barrier:Certified thermal conductivity. λ_{50} : 0.022 W/mK						
	Outer casing: Polyethylene, PE-LD						
Component overview/data	Component No	. 2100 SteelFlex,	, single pipe.				
eren nom/ data	Steel pipe		Series 1		Series 2		
	ø out.	wall thickn.	ø out.	wall thickn.	ø out.	wall thickn.	
	mm	mm		mm	mm	mm	
	20	2.0	77	2.2	90	2.5	
	25	2.0	77	2.2	90	2.5	
	28	2.0	77	2.2	90	2.5	

SteelFlex is available with embedded copper wires for surveillance (Nordic system). To be stated when ordering.



SteelFlex Straight joints

Joint types	There are 3 different kin · straight joint, same dir · reduction · connection to ordinary	nension	ction with SteelFlex pipes:
Straight joints	SteelFlex service pipes a are required.	are joined by means	of welding; consequently no special components
Reduction and connection	used. Component No. of weld Steel pipe ø out. From 25 26.9 28 28 33.7 33.7 33.7	Veld reduction To 20 20 20 25 20 25 20 25 28	IFlex and/or major pipes weld reductions are
Casing joints	42.4 42.4 See section 3.5.	25 28	

3.1.2.1



SteelFlex Connection to main pipe

Branch types	In principle there are three different ways to ma	ke connection to the main pipe.
	 The flexible steel fitting system also gives a nun Straight branch from FlexPipe and steel servic 45° branch from steel service pipe 90° branch from steel service pipe 	
Straight branch from FlexPipe by means of welding	If the house entry dimension is at least one dimension smaller than the SteelFlex main pipe dimension, the branch can be directly welded on to the main SteelFlex pipe.	
Straight branch from FlexPipe by means of weld T- pieces	SteelFlex service pipes can also be joined by means of weld T-pieces. SteelFlex service pipe T-piece ø out. mm Product No. 20-20-20 8-7880 25-25-25 8-8065 28-28-28 8-7859	
Reduction	Reductions in connection with branching from FlexPipe to FlexPipe can be made with weld reductions. Component No. 1006	SteelFlex service pipe ø out. mm 25-20 28-25 28-20
Straight branch from ordinary preinsulated pipe	SteelFlex pipes can be connected to the main pipe by direct welding.	



SteelFlex Connection to main pipe

45° branch

Branches with deflection perpendicular to the main pipe are carried out with 45° branch pipe pieces.

Product Nos. of 45° branch pipe piece

SteelFlex ø out. mm	45° branch pipe piece Product No.
20	8-4060
25	8-4061
28	8-4062



90° branch

Branches with deflection perpendicular to or parallel with the main pipe are carried out with 90° branch pipe pieces.

Product Nos. of 90° branch pipe piece

SteelFlex	90°
service pipe	branch pipe piece
ø out. mm	Product No.
20	8-7875
25	8-8062
28	8-7851



Reinforcement

Please note that in connection with systems with high axial stresses (installation method IV) it may be necessary to reinforce the main pipe, if there is no or only a small dimensional difference.



SteelFlex

Hot tapping, type 1

Application	Branches with SteelFlex pipes can be installed on systems in operation with hot tapping valves. The small dimensions of the valves mean that they can be fitted into the standard joints of e.g. the steel fittings system. Max. operating pressure: 25 bar.
Description	 The hot tapping valve, type 1, is adjusted to our FlexPipe system 1. Hot tapping valve 2. Pipe end for direct welding of 90° weld coupling 3. Conic pipe plug with hexagon socket 4. Operating screw with slot, acting as position indicator 5. Branch pipe piece (only for 90° steel joint branches)
Materials	Hot tapping valve:Valve casing:SteelValve ball:Stainless steelSealing:PTFE (Teflon)Branch pipe piece:Weldable steel quality
Component overview	Parts for hot tapping with SteelFlex.Branch pipe service pipe ø out. mmHot tapping valve Product no.90° branch pipe piece Product no.Hot tapping valve, component No. 4280.Branch pipe service pipe ø out. mmHot tapping valve

8-7868

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