HDPE SOCKET EUSION Pipes & Fittings

















HÜRNER Socket Welder HMS



Product Description	Size (mm)
HURNER Socket Welder HMS	20 - 63
	20 - 125



Made in Germany

HÜRNER Spigot & Socket

Product Description	Size (mm)	
HURNER Spigot & Socket	20, 25, 32, 40, 50, 63, 75, 90, 110	500

Installation Method

1 Preparation

Product Descr

Choose the appropriate heating bushes and turn on the HURNER Socket Welder



Use a pipe cutter to cut at an angle of 90° to a given



Wipe the inside & outside of the fitting and pipe to make sure they are cleaned

Please don't touch the cleaned surface with your hand/s.

4 Fusion depth measuring



Mark the insertion depth with a marker. Kindly refer to the table (Socket Fusion Welding Parameters) below.



Place the pipe and fitting into the socket horizonta**ll**y.



Push both the pipe ends to fit properly within the desired time frame, as per table (Socket Fusion Welding Parameters) below.

Please do not twist. Do not re-use a melted fitting. Please start over from Step 1 if the melted pipe is not complete.

Socket Fusion Welding Parameters

OD (mm)	Insertion Depth (mm)	Heating Time (sec)	Fusion Time (sec)	Cooling Time (min)
20	14.0	5	4	2
25	15.0	7	4	2
32	16.5	8	6	4
40	18.0	12	6	4
50	20.0	18	6	4
63	23.0	24	8	6
75	27.5	30	8	8
90	32.0	40	8	8
110	38.0	50	10	8



Please scan QR code for our product installation. 25 x 20 32 x 20 32 x 25

POLYFUSE PE SOCKET FUSION SYSTEM



PE100 HDPE Pipe

Outside Diameter (OD) (mm) Size

Straight		
5.8m / length	PN16 (SDR 11)	*20 , 25, 32, 40, 50, 63, 75, 90, 110
50m Coil	PN16 (SDR 11)	75, 90, 110
100m Coil	PN16 (SDR 11)	*20 , 25, 32, 40, 50, 63
	*20 : PN20 / SDR9	

Reducer

50 x 40



		Normin	al Diameter (r Size	nm)	
40 x 20	50 x 20	63 x 20	75 x 50	90 x 50	110 x 50
40 x 25	50 x 25	63 x 25	75 x 63	90 x 63	110 x 63
40 x 32	50 x 32	63 x 32		90 x 75	110 x 75

63 x 40

63 x 50

Socket



	Norminal Diameter (mm) Size	
20	40	75
25	50	90
32	63	110

110 x 90

Equal Elbow 90°



	Size	
20	40	75
25	50	90
32	63	110

Norminal Diameter (mm)

Elbow 45°



	Size	
20	40	75
25	50	90
32	63	110

Equal Tee



	Size	
20 x 20 x 20	40 x 40 x 40	75 x 75 x 75
25 x 25 x 25	50 x 50 x 50	90 x 90 x 90
22 4 22 4 22	62 4 62 4 62	110 v 110 v 110











Reducing Tee

Norminal	Diameter	(mm)
	Size	

		OILO		
25 x 20	50 x 20	63 x 20	75 x 50	110 x 50
32 x 20	50 x 25	63 x 25	75 x 63	110 x 63
32 x 25	50 x 32	63 x 32	90 x 50	110 x 75
40 x 20	50 x 40	63 x 40	90 x 63	110 x 90
40 x 25		63 x 50	90 x 75	
40 x 32				

Female Threaded Adaptor

Norminal Diameter (mm)

Size

20 x ½"	32 x ½"	40 x 11/4"	50 x 1¼"	75 x 2"
20 x ¾"	32 x ¾"	40 x 1½"	50 x 1½"	75 x 2½"
25 x ½"	32 x 1"	40 x 1"	50 x 2"	90 x 3"
25 x ¾"			63 x 1½"	110 x 3"
			63 x 2"	110 x 4"

Male Threaded Adaptor

Size

20 x ½"	32 x ½"	40 x 1¼"	50 x 1¼"	63 x 1½"	90 x 3"
20 x ¾"	32 x ¾"	40 x 1½"	50 x 1½"	63 x 2"	110 x 3"
25 x ½"	32 x 1"	40 x 1"	50 x 2"	75 x 2"	110 x 4"
25 x 3/4"				75 x 21/2"	

Norminal Diameter (mm)

Female Elbow

Norminal Diameter (mm)

Size

20 x ½"	32 x ½"	40 x 1"	50 x 1¼"	63 x 1½"	90 x 3"
20 x ¾"	32 x ¾"	40 x 11/4"	50 x 1½"	63 x 2"	110 x 3"
25 x ½"	32 x 1"	40 x 1½"	50 x 2"	75 x 2"	110 x 4"
25 x ¾"				75 x 2½"	

Male Elbow

Norminal Diameter (mm)

Size

20 x ½"	32 x ¾"	50 x 1¼"	75 x 2"
20 x ¾"	32 x 1"	50 x 1½"	75 x 2½"
25 x ½"	40 x 1"	50 x 2"	90 x 3"
25 x ¾"	40 x 11/4"	63 x 1½"	110 x 3"
32 x ½"	40 x 1½"	63 x 2"	110 x 4"

Stiffener

Norminal Diameter (mm)

Size	
20 PN16	
25 PN16	
32 PN16	







SPAN









POLYFUSE PE SOCKET FUSION SYSTEM



Reducing Elbow

Norminal	Diameter	(mn
	Size	

OIE0
25 x 20
32 x 20
32 x 25
40 x 32
50 x 40
63 x 50



Female Tee

Norminal Diameter (mm)

40 x 1½"

20 x ½"	32 x ½"	50 x 1¼"	75 x 2"
20 x ¾"	32 x ¾"	50 x 1½"	75 x 2½"
25 x ½"	32 x 1"	50 x 2"	90 x 3"
25 x ¾"	40 x 1"	63 x 1½"	110 x 3"
	40 x 11/4"	63 x 2"	110 x 4"



Male Tee

Norminal Diameter (mm) Size

20 x ½"	32 x ½"	50 x 11/4"	75 x 2"
20 x ¾"	32 x ¾"	50 x 1½"	75 x 2½"
25 x ½"	32 x 1"	50 x 2"	90 x 3"
25 x ¾"	40 x 1"	63 x 1½"	110 x 3"
	40 x 11/4"	63 x 2"	110 x 4"
	40 x 1½"		



End Cap

Norminal Diameter (mm)

	3126	
20	40	75
25	50	90
32	63	110



Flange Adapter

Norminal	Diameter (mm))
	Size	

Size			
20	40	75	
25	50	90	
32	63	110	



Stopcock

Norminal Diameter (mm)

Size			
20	32	50	
25	40	63	











Socket fusion welding is a commonly used method for assembling plastic pipeline systems using injection moulded fittings. It is mainly applied to pipe fitting diameters of ½" (20mm) up to 4" (110mm).

The operating concepts are simple, with the binding cycle primarily made up of a heating phase and a cooling or welding phase. It is socket fused by putting heat to pre-arranged pipe ends, then plunging the pipe ends together with a preset force to make a constant socket fusion joint.

POLYFUSE PE SOCKET FUSION

POLYFUSE PE pipes strictly conform to MS1058: Part 2: 2005 standard specifications. Our products are licensed by SIRIM and approved by local water authorities to be used as the top mark for quality. The granting of the top mark confirms that our company's manufacturing, testing and quality control systems comply with the stringent licensing requirements and thus ensures that our products quality is consistently maintained.

Advantages for using POLYFUSE HDPE Pipe

Our pipes are SIRIM approved and manufactured using approved raw materials, high density polyethylene and comply to MS 1058.

- Ease, reliability and cost efficiency of jointing and laying operations.
- · Non toxic, low abrasion and flexibility.
- Excellent resistance to water hammer phenomena.
- Absence of scale on inside walls results in consistency of pipeline hydraulic performance.
- Immune to corrosion phenomena and have very good resistance to a wide range of chemicals.



Product Standard(s): BS EN 12201-3: 2011 + A1: 2012



Product Standard(s) : MS 1058: PART 3: 2006

